

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL102418\
 Data File : VL032689.D
 Acq On : 24 Oct 2018 16:11
 Operator : SY/AP
 Sample : QC101818 CAN 10440
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC101818 CAN 10440

Quant Time: Oct 25 05:24:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 25 05:15:43 2018
 QLast Update : Thu Oct 25 05:15:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1454322	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3624985	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3482825	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2562210	9.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	32	0.000	ppbv #	42
3) Chlorodifluoromethane	3.03	51	1040	0.009	ppbv #	90
4) Chloromethane	3.17	50	275	0.004	ppbv #	42
5) Vinyl Chloride	3.06	62	68	0.001	ppbv #	43
6) Bromomethane	3.45	94	92	0.002	ppbv #	6
7) Chloroethane	3.43	64	64	0.003	ppbv #	44
8) Dichlorotetrafluoroethane	3.10	85	86	0.001	ppbv #	20
9) Propene	3.36	41	532	0.011	ppbv	85
10) Heptane	8.26	43	142	0.001	ppbv #	1
11) Trichlorofluoromethane	4.43	101	54	0.000	ppbv	87
12) 1,1,2-Trichlorotrifluoroet	4.63	101	323	0.002	ppbv #	17
13) Ethanol	3.68	45	249	0.019	ppbv #	36
14) Bromoethene	3.81	108	97	0.002	ppbv #	1
15) Acetone	3.95	43	15008	0.112	ppbv #	79
16) 1,3-Butadiene	3.39	39	134	0.003	ppbv #	1
17) tert-Butyl alcohol	4.43	59	1110	0.028	ppbv #	100
18) 1,1-Dichloroethene	4.38	96	108	0.002	ppbv #	1
19) Isopropyl Alcohol	4.06	45	134	0.001	ppbv #	93
20) Methylene Chloride	4.43	84	4689	0.069	ppbv	94
21) Allyl Chloride	4.47	41	204	0.002	ppbv #	1
22) trans-1,2-Dichloroethene	4.87	96	108	0.001	ppbv #	1
23) Vinyl Acetate	5.16	43	306	0.001	ppbv #	1
24) 1,1-Dichloroethane	5.11	63	51	0.000	ppbv #	89
25) Ethyl Acetate	5.79	43	665	0.002	ppbv #	34
26) Hexane	5.79	57	607	0.004	ppbv #	1
27) Carbon Disulfide	4.63	76	110	0.001	ppbv #	66
28) Methyl tert-Butyl Ether	5.16	73	76	0.000	ppbv #	1
29) Chloroform	5.98	83	49	0.000	ppbv	87
30) Cyclohexane	7.28	84	2679	0.023	ppbv #	1
31) cis-1,2-Dichloroethene	5.81	61	102	0.001	ppbv #	24
32) 1,1,1-Trichloroethane	6.58	97	118	0.000	ppbv #	45
34) 2-Butanone	5.35	43	161	0.001	ppbv #	52
35) Carbon Tetrachloride	7.27	117	116	0.000	ppbv #	3
36) Benzene	7.01	78	411	0.001	ppbv #	58
37) 1,2-Dichloroethane	6.43	62	168	0.001	ppbv #	84
38) Trichloroethene	7.97	130	139	0.001	ppbv #	1
39) 1,2-Dichloropropane	7.31	63	906046	7.971	ppbv #	26
40) 1,4-Dioxane	7.98	88	92	0.002	ppbv #	1
41) Tetrahydrofuran	6.16	42	85	0.001	ppbv #	2
42) Bromodichloromethane	7.93	83	165	0.001	ppbv #	1
43) Methyl Methacrylate	8.14	69	84	0.001	ppbv #	55

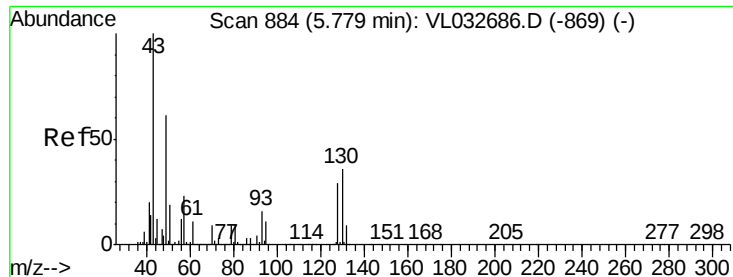
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL102418\
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Quant Time: Oct 25 05:24:42 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	55	0.000	ppbv #	44
45) t-1,3-Dichloropropene	9.55	75	212	0.001	ppbv	92
46) cis-1,3-Dichloropropene	8.78	75	80	0.000	ppbv #	26
47) 1,1,2-Trichloroethane	9.62	97	265	0.002	ppbv #	27
48) Dibromochloromethane	10.46	129	223	0.001	ppbv	96
49) Bromoform	13.21	173	437	0.002	ppbv #	27
50) 4-Methyl-2-Pentanone	8.88	43	60	0.000	ppbv #	38
51) 2-Hexanone	10.28	43	287	0.001	ppbv #	64
52) Tetrachloroethene	11.38	164	199	0.002	ppbv #	10
53) Toluene	9.98	91	248	0.001	ppbv	99
54) 1,2-Dibromoethane	10.78	107	723	0.004	ppbv	81
56) 1,1,1,2-Tetrachloroethane	12.29	131	49	0.000	ppbv #	9
57) Chlorobenzene	12.32	112	565	0.002	ppbv #	69
58) Ethyl Benzene	12.88	91	171	0.000	ppbv #	44
59) m/p-Xylene	13.16	91	80	0.000	ppbv #	31
60) o-Xylene	13.82	91	89	0.000	ppbv	89
61) Styrene	13.70	104	286	0.001	ppbv #	1
62) Isopropylbenzene	14.84	105	508	0.001	ppbv #	49
63) 1,1,2,2-Tetrachloroethane	13.86	83	241	0.001	ppbv #	25
64) n-propylbenzene	15.64	120	58	0.000	ppbv	64
65) tert-Butylbenzene	16.93	119	131	0.000	ppbv #	1
66) Benzyl Chloride	17.18	91	506	0.002	ppbv #	1
67) sec-Butylbenzene	17.48	105	254	0.000	ppbv #	60
69) p-Isopropyltoluene	17.83	119	223	0.000	ppbv #	47
70) n-Butylbenzene	18.73	91	438	0.001	ppbv #	1
71) 2-Chlorotoluene	15.74	91	387	0.001	ppbv	92
72) 4-Ethyltoluene	16.01	105	72	0.000	ppbv #	1
73) 1,3,5-Trimethylbenzene	16.17	105	595	0.002	ppbv #	66
74) 1,2,4-Trimethylbenzene	16.94	105	589	0.002	ppbv #	58
75) 1,3-Dichlorobenzene	17.18	146	667	0.003	ppbv #	1
76) 1,4-Dichlorobenzene	17.33	146	875	0.004	ppbv #	23
77) 1,2-Dichlorobenzene	17.75	146	159	0.001	ppbv	76
78) Hexachloro-1,3-Butadiene	23.55	225	617	0.006	ppbv #	1
79) Naphthalene	22.42	128	398	0.002	ppbv #	69
80) Naphthalene, 2-methyl-	25.14	142	2781	0.048	ppbv	89
81) 1,2,4-Trichlorobenzene	22.15	180	528	0.004	ppbv #	12

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

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QC101818 CAN 10440

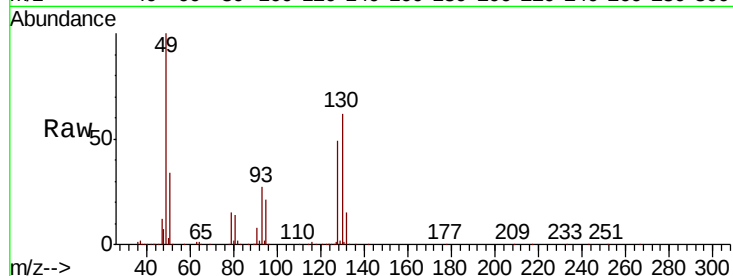
Tgt Ion: 49 Resp: 1454322

Ion Ratio Lower Upper

49 100

128 49.5 22.3 66.8

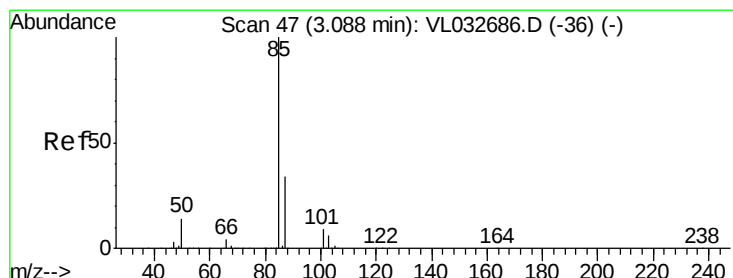
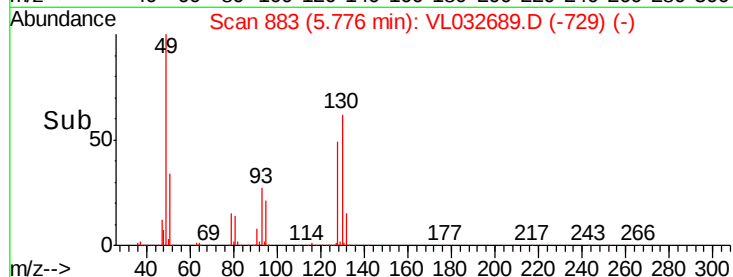
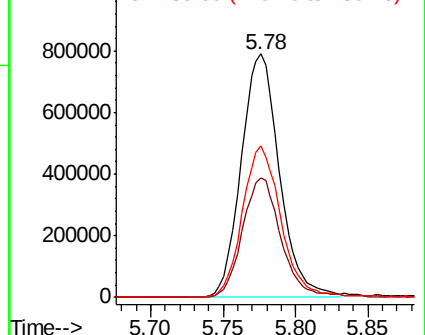
130 63.0 28.4 85.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.000 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032689.D

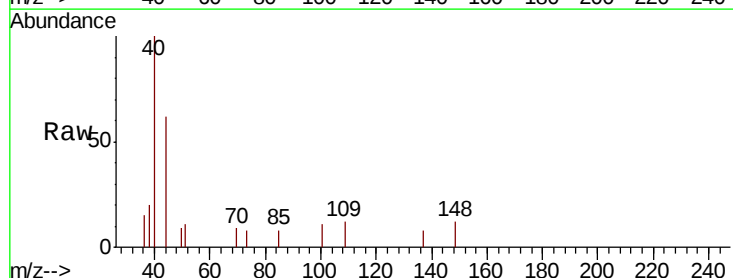
Acq: 24 Oct 2018 16:11

Tgt Ion: 85 Resp: 32

Ion Ratio Lower Upper

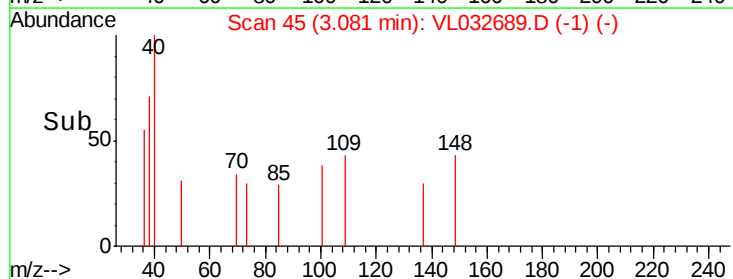
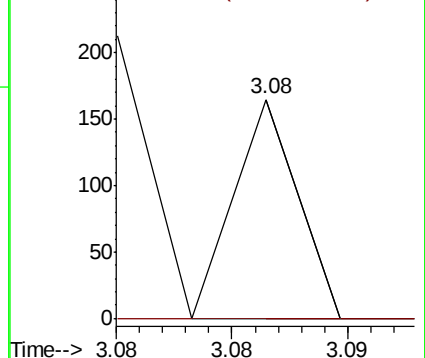
85 100

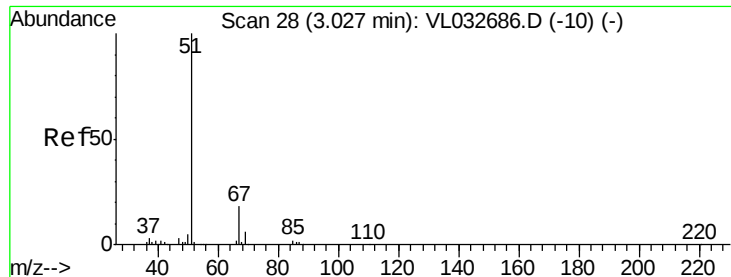
87 0.0 26.2 39.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.009 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.01 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

MSVOA_L

ClientSampleId :

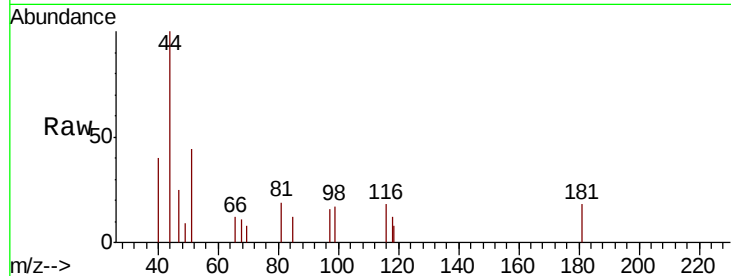
QC101818 CAN 10440

Tgt Ion: 51 Resp: 1040

Ion Ratio Lower Upper

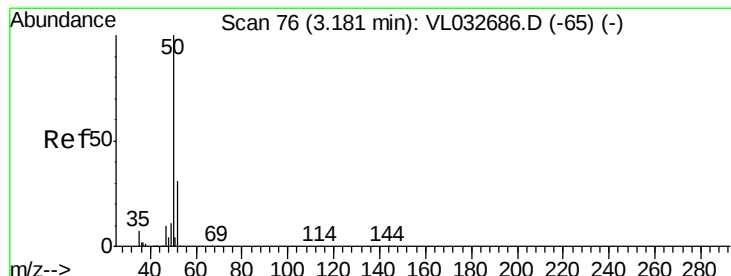
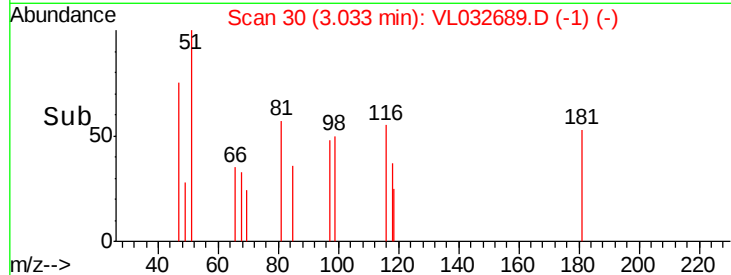
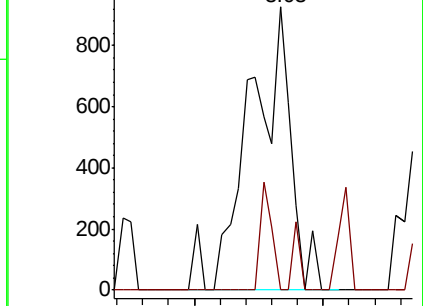
51 100

67 14.6 15.2 22.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.004 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL032689.D

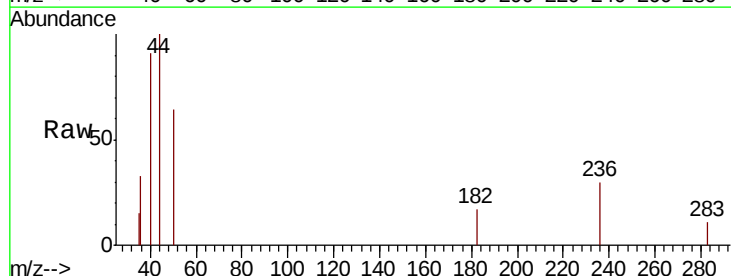
Acq: 24 Oct 2018 16:11

Tgt Ion: 50 Resp: 275

Ion Ratio Lower Upper

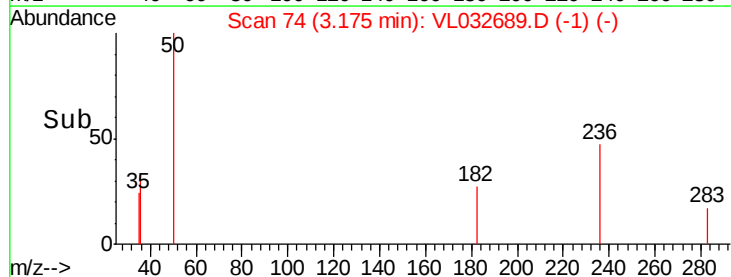
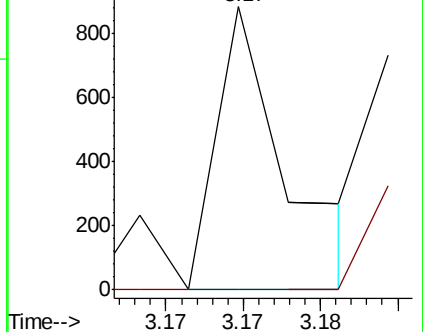
50 100

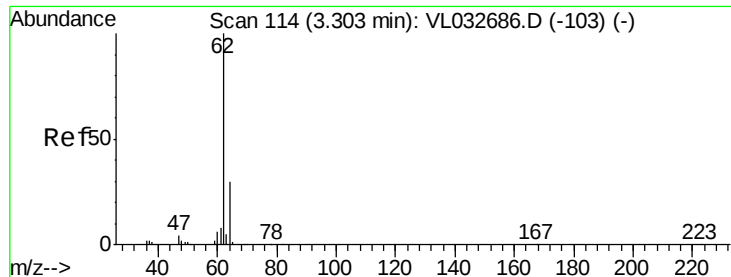
52 0.0 25.9 38.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.001 ppbv

RT: 3.06 min Scan# 38

Delta R.T. -0.24 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

MSVOA_L

ClientSampleId :

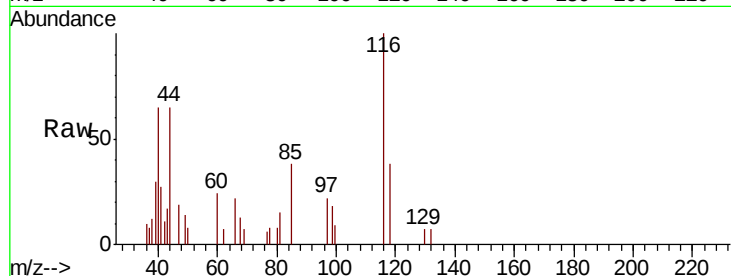
QC101818 CAN 10440

Tgt Ion: 62 Resp: 68

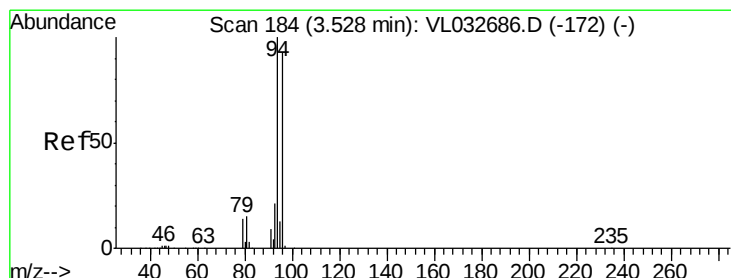
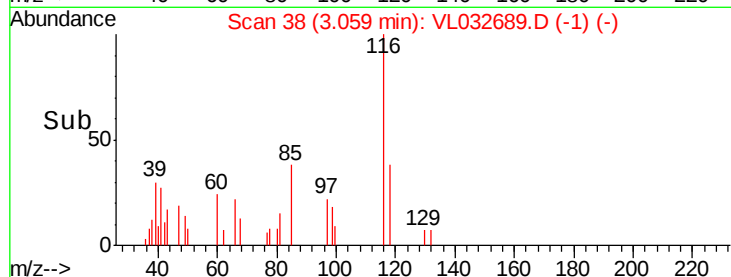
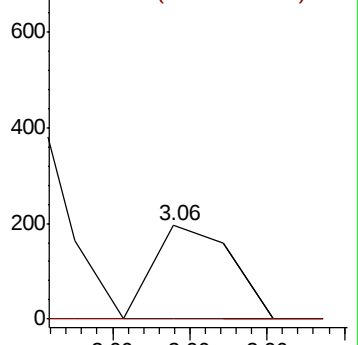
Ion Ratio Lower Upper

62 100

64 0.0 25.5 38.3#



Abundance Ion 62.10 (61.80 to 62.80): VL0



#6

Bromomethane

Concen: 0.002 ppbv

RT: 3.45 min Scan# 159

Delta R.T. -0.07 min

Lab File: VL032689.D

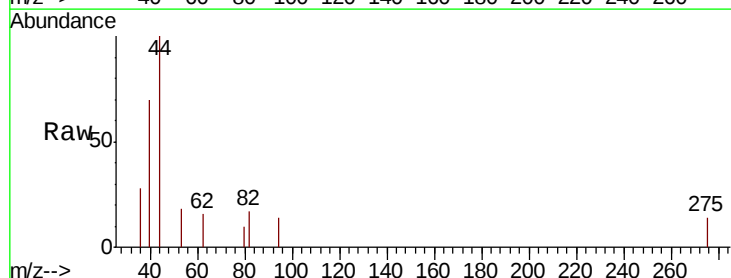
Acq: 24 Oct 2018 16:11

Tgt Ion: 94 Resp: 92

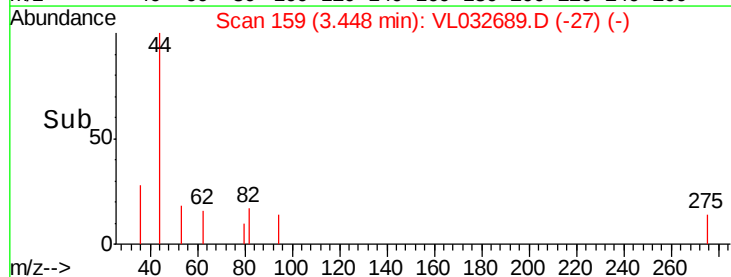
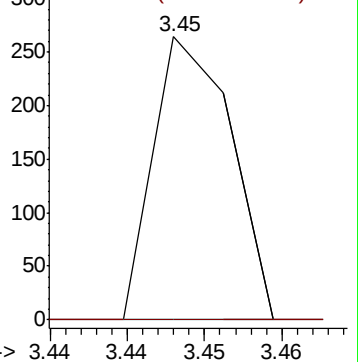
Ion Ratio Lower Upper

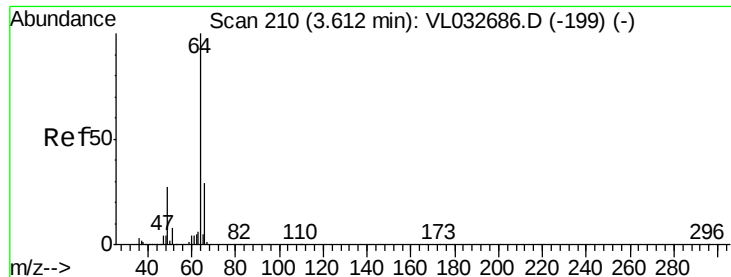
94 100

96 0.0 69.8 104.8#



Abundance Ion 94.00 (93.70 to 94.70): VL0





#7

Chloroethane

Concen: 0.003 ppbv

RT: 3.43 min Scan# 152

Delta R.T. -0.18 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

MSVOA_L

ClientSampleId :

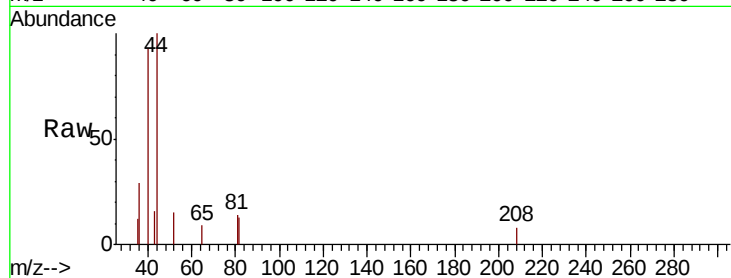
QC101818 CAN 10440

Tgt Ion: 64 Resp: 64

Ion Ratio Lower Upper

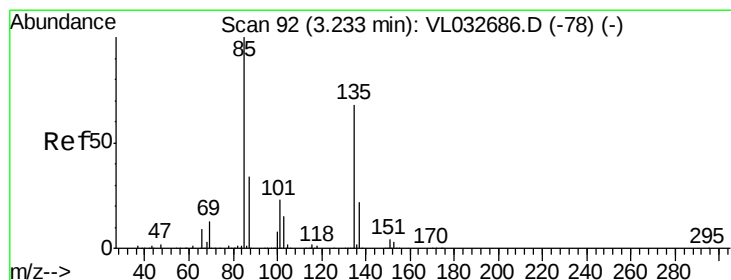
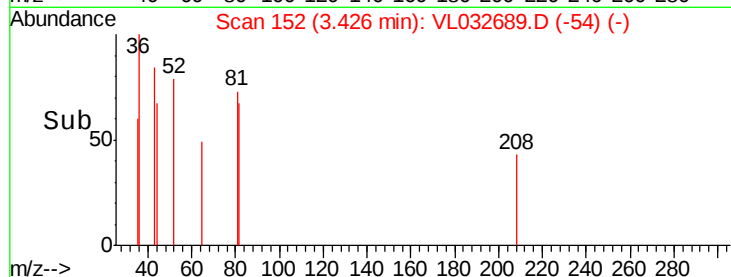
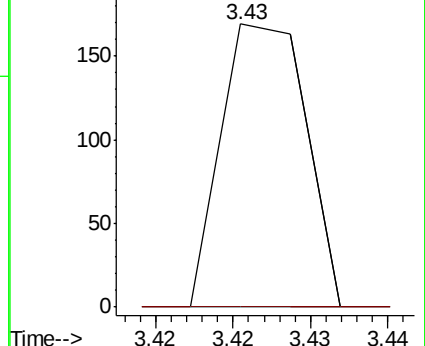
64 100

66 0.0 24.4 36.6#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.001 ppbv

RT: 3.10 min Scan# 50

Delta R.T. -0.13 min

Lab File: VL032689.D

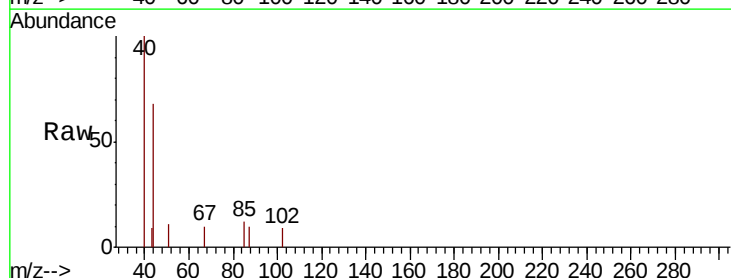
Acq: 24 Oct 2018 16:11

Tgt Ion: 85 Resp: 86

Ion Ratio Lower Upper

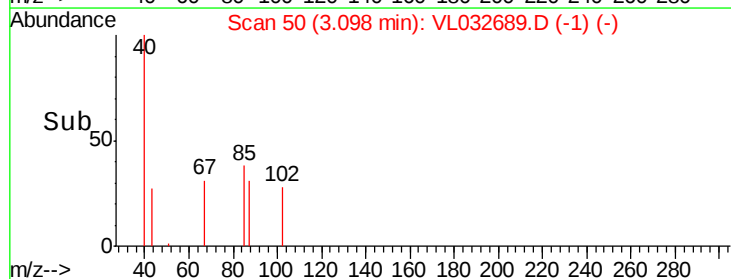
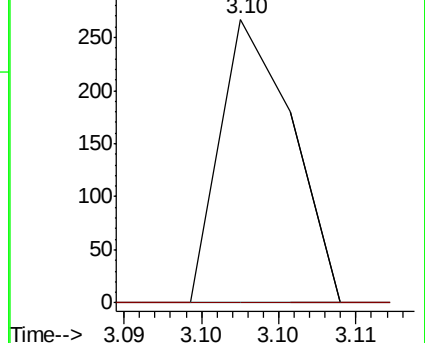
85 100

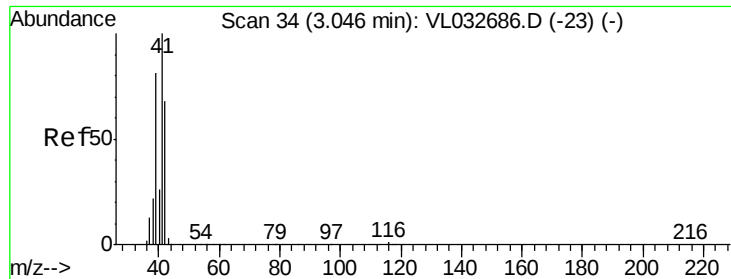
135 0.0 49.0 73.4#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.011 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.32 min

Lab File: VL032689.D

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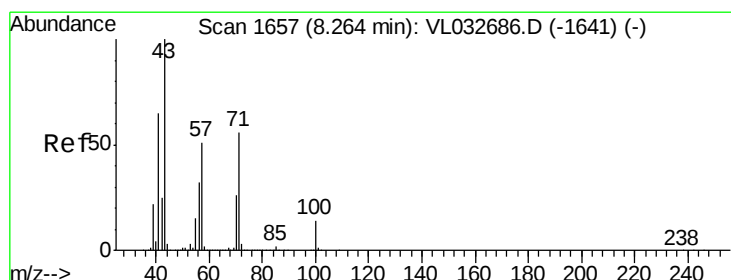
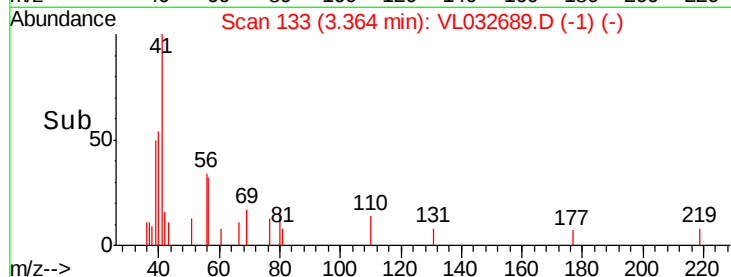
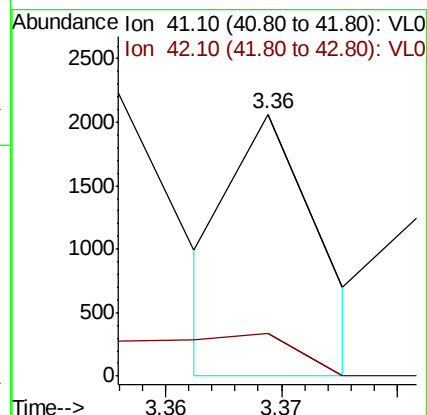
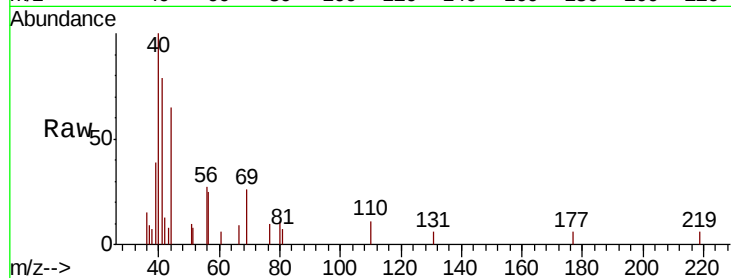
QC101818 CAN 10440

Tgt Ion: 41 Resp: 532

Ion Ratio Lower Upper

41 100

42 57.3 55.4 83.0



#10

Heptane

Concen: 0.001 ppbv

RT: 8.26 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VL032689.D

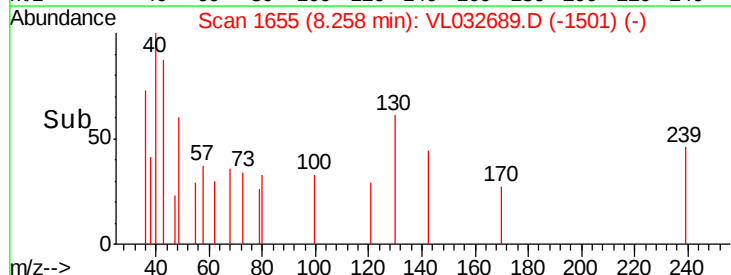
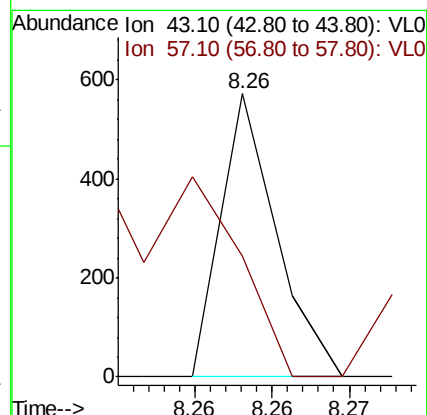
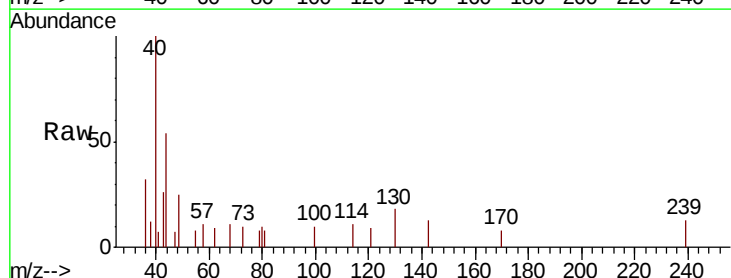
Acq: 24 Oct 2018 16:11

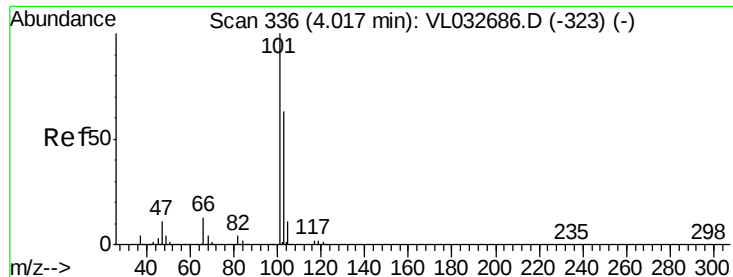
Tgt Ion: 43 Resp: 142

Ion Ratio Lower Upper

43 100

57 276.8 41.5 62.3#





#11

Trichlorofluoromethane

Concen: 0.000 ppbv

RT: 4.43 min Scan# 464

Delta R.T. 0.41 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

MSVOA_L

ClientSampleId :

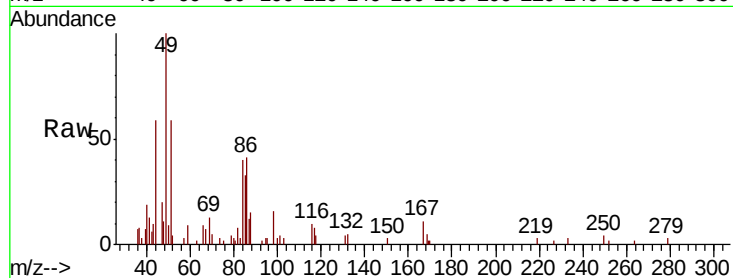
QC101818 CAN 10440

Tgt Ion:101 Resp: 54

Ion Ratio Lower Upper

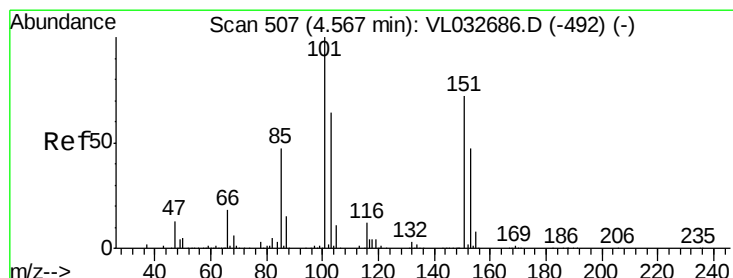
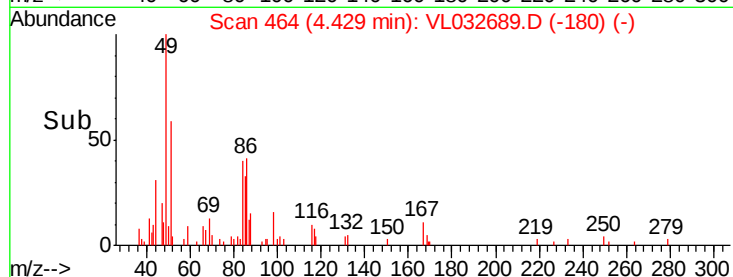
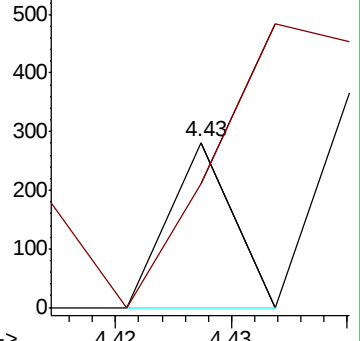
101 100

103 74.7 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.002 ppbv

RT: 4.63 min Scan# 528

Delta R.T. 0.07 min

Lab File: VL032689.D

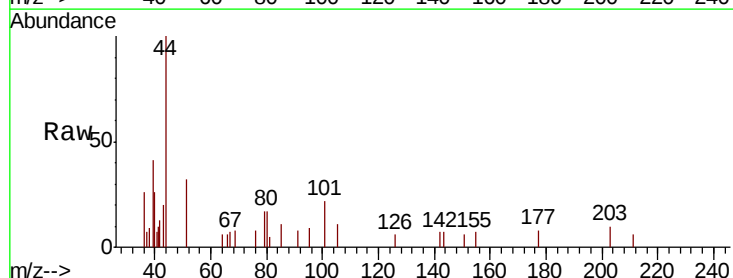
Acq: 24 Oct 2018 16:11

Tgt Ion:101 Resp: 323

Ion Ratio Lower Upper

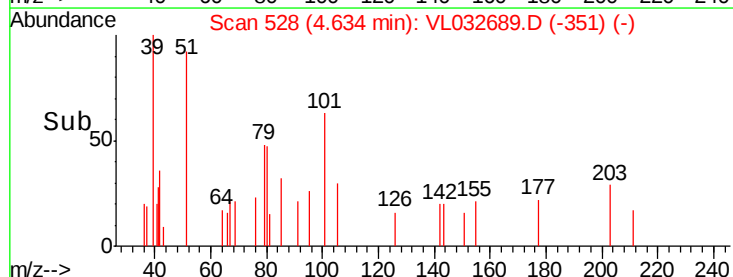
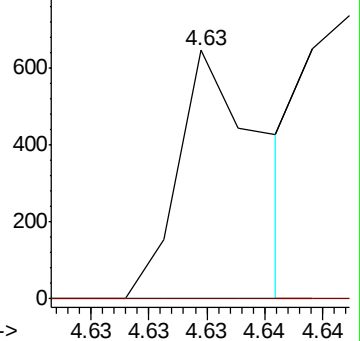
101 100

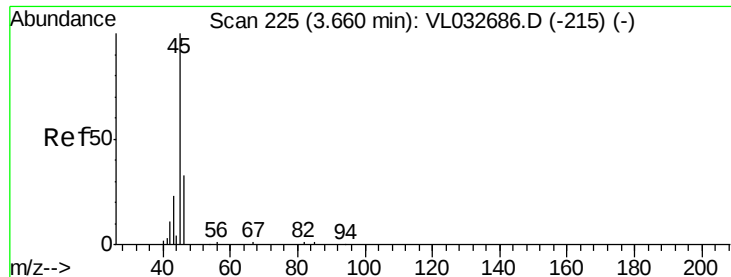
151 0.0 52.3 78.5#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.019 ppbv

RT: 3.68 min Scan# 231

Delta R.T. 0.02 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

MSVOA_L

ClientSampleId :

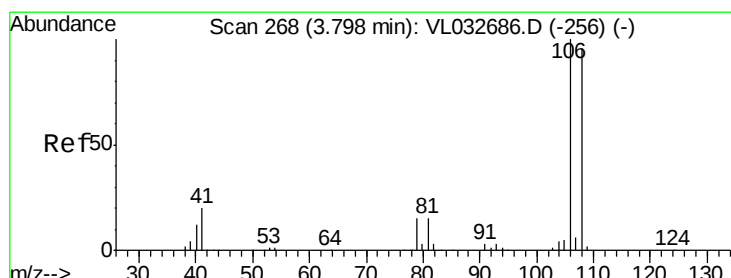
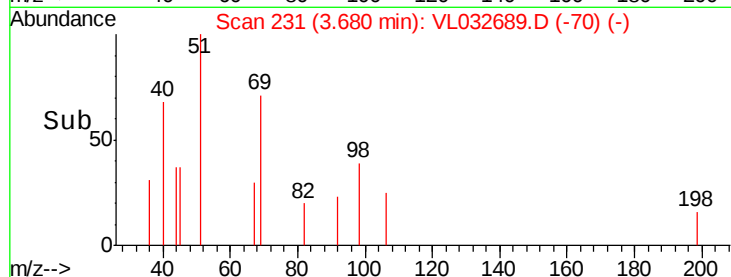
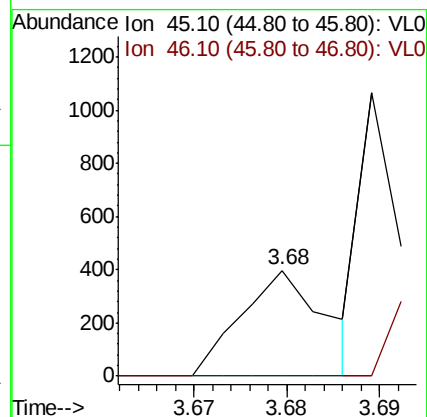
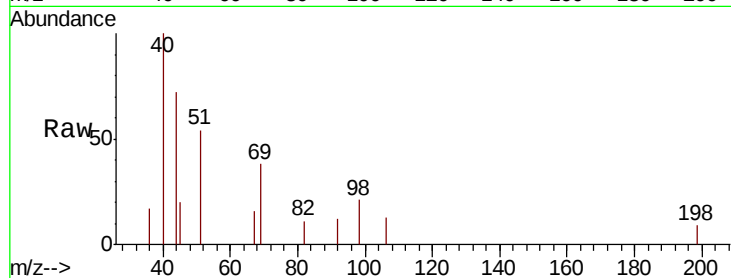
QC101818 CAN 10440

Tgt Ion: 45 Resp: 249

Ion Ratio Lower Upper

45 100

46 0.0 15.4 61.8#



#14

Bromoethene

Concen: 0.002 ppbv

RT: 3.81 min Scan# 271

Delta R.T. 0.01 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

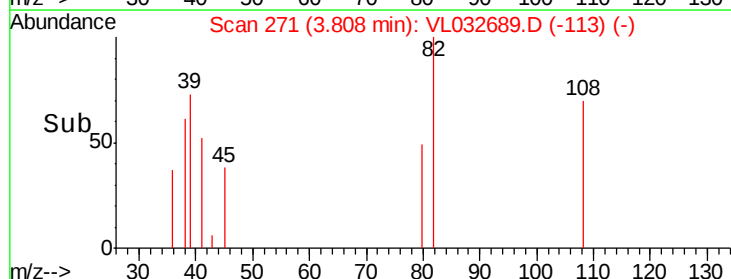
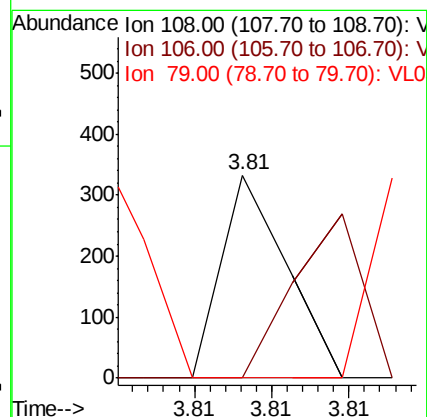
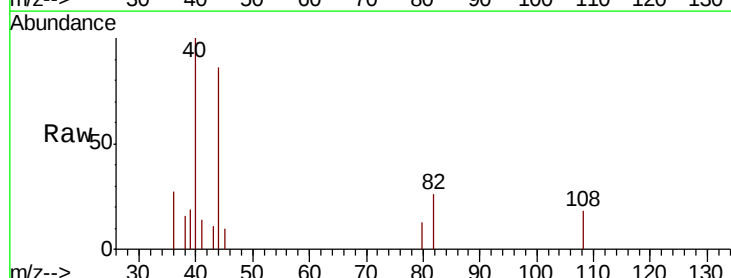
Tgt Ion: 108 Resp: 97

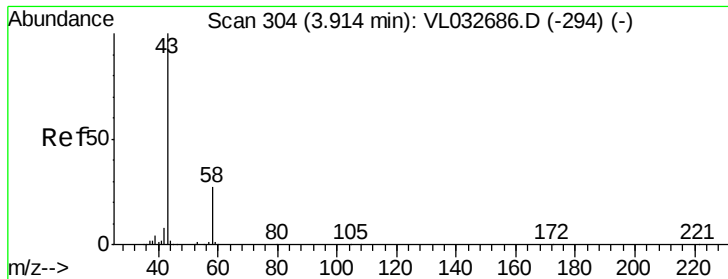
Ion Ratio Lower Upper

108 100

106 0.0 85.0 127.4#

79 554.6 13.7 20.5#





#15

Acetone

Concen: 0.112 ppbv

RT: 3.95 min Scan# 314

Delta R.T. 0.04 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

MSVOA_L

ClientSampleId :

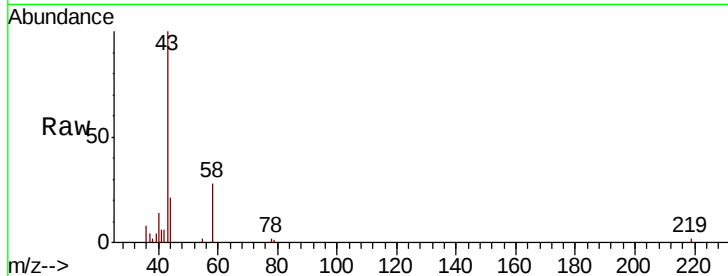
QC101818 CAN 10440

Tgt Ion: 43 Resp: 15008

Ion Ratio Lower Upper

43 100

58 38.7 22.1 33.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.95

12000

10000

8000

6000

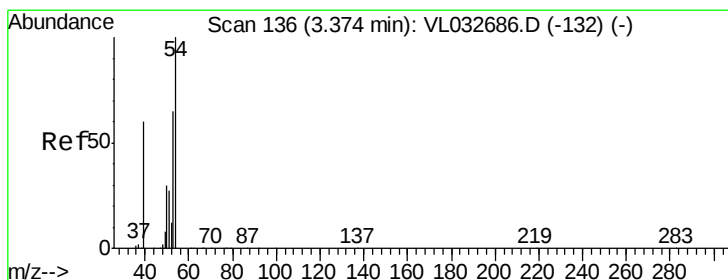
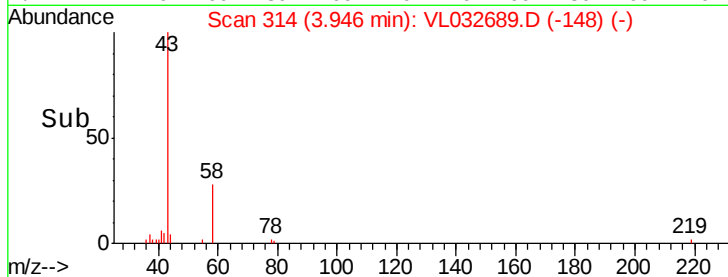
4000

2000

0

Time-->

3.92 3.94 3.96 3.98



#16

1,3-Butadiene

Concen: 0.003 ppbv

RT: 3.39 min Scan# 141

Delta R.T. 0.02 min

Lab File: VL032689.D

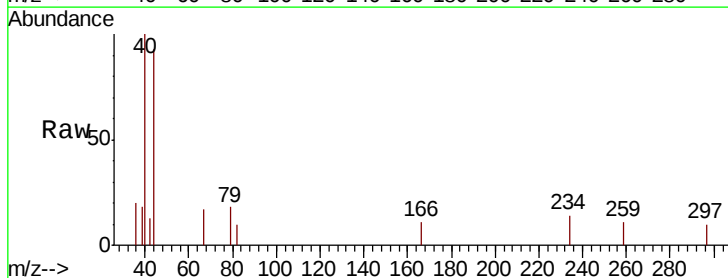
Acq: 24 Oct 2018 16:11

Tgt Ion: 39 Resp: 134

Ion Ratio Lower Upper

39 100

54 0.0 90.4 135.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.39

500

400

300

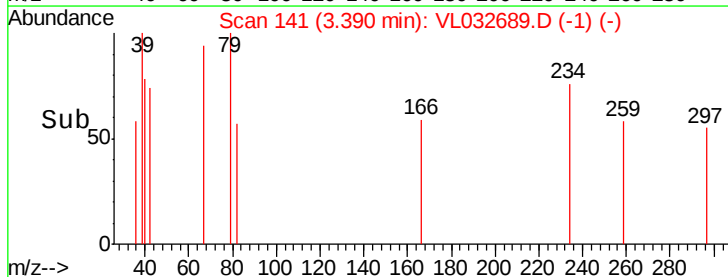
200

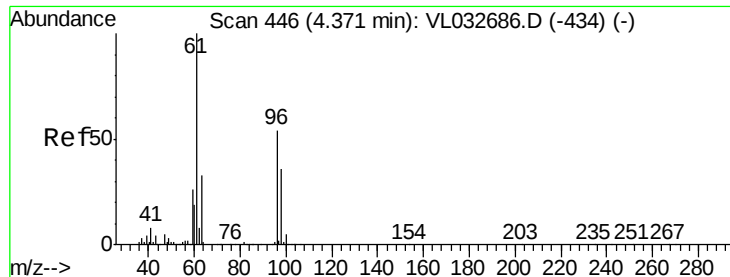
100

0

Time-->

3.38 3.38 3.38 3.39 3.40



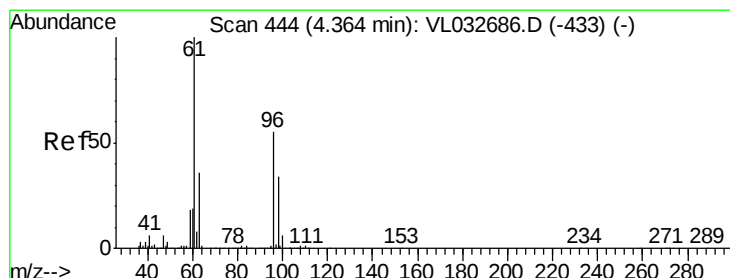
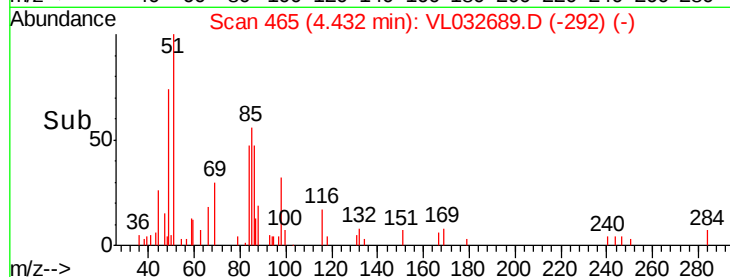
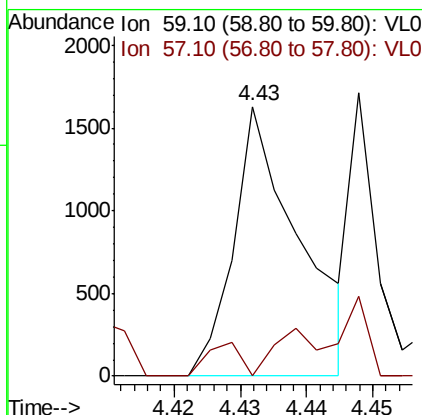
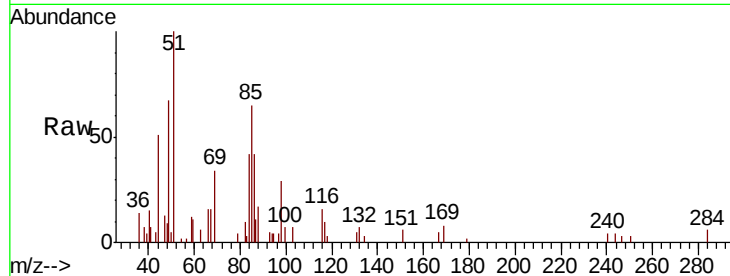


#17

tert-Butyl alcohol
Concen: 0.028 ppbv
RT: 4.43 min Scan# 465
Delta R.T. 0.06 min
Lab File: VL032689.D
Acq: 24 Oct 2018 16:11

Instrument :
MSVOA_L
ClientSampleId :
QC101818 CAN 10440

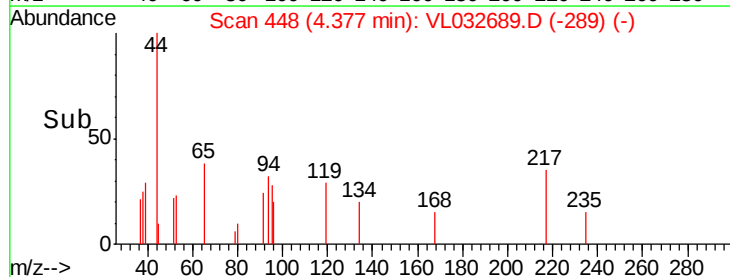
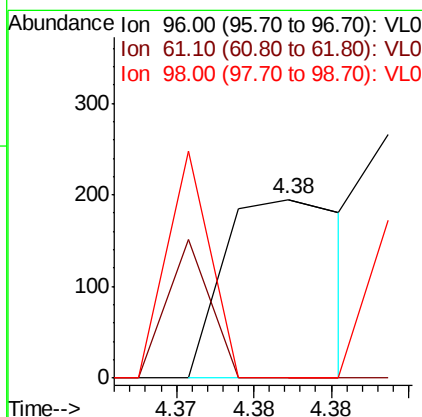
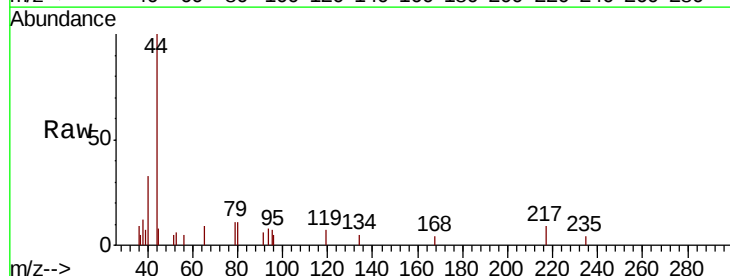
Tgt Ion: 59 Resp: 1110
Ion Ratio Lower Upper
59 100
57 16.6 0.0 0.0#

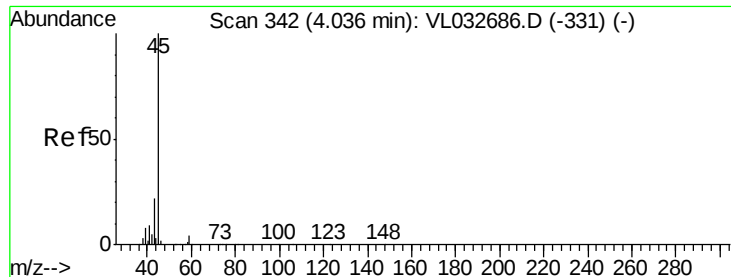


#18

1,1-Dichloroethene
Concen: 0.002 ppbv
RT: 4.38 min Scan# 448
Delta R.T. 0.01 min
Lab File: VL032689.D
Acq: 24 Oct 2018 16:11

Tgt Ion: 96 Resp: 108
Ion Ratio Lower Upper
96 100
61 0.0 151.6 227.4#
98 0.0 50.6 75.8#





#19

Isopropyl Alcohol

Concen: 0.001 ppbv

RT: 4.06 min Scan# 350

Delta R.T. 0.03 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

MSVOA_L

ClientSampleId :

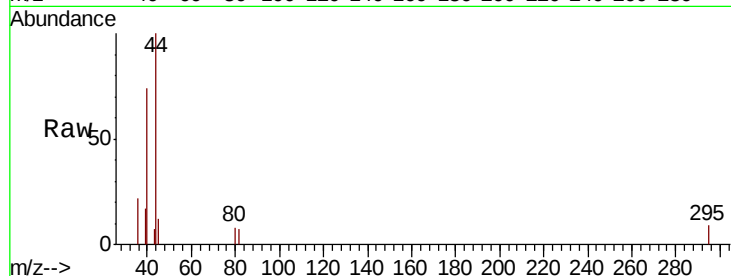
QC101818 CAN 10440

Tgt Ion: 45 Resp: 134

Ion Ratio Lower Upper

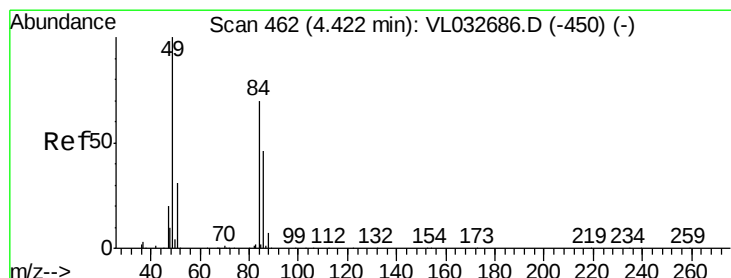
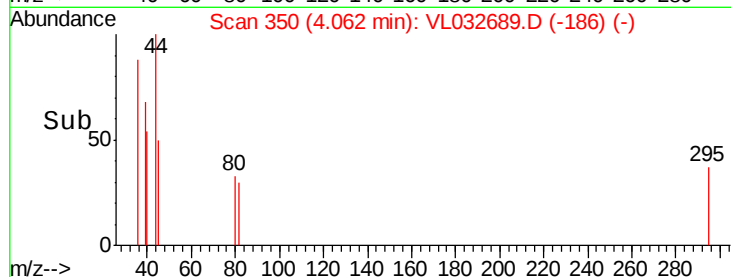
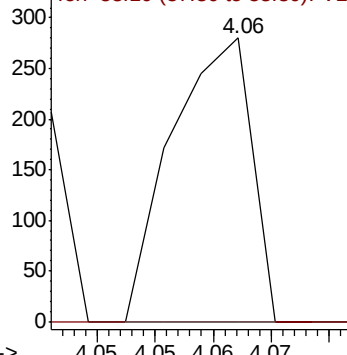
45 100

58 0.0 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.069 ppbv

RT: 4.43 min Scan# 463

Delta R.T. 0.01 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Tgt Ion: 84 Resp: 4689

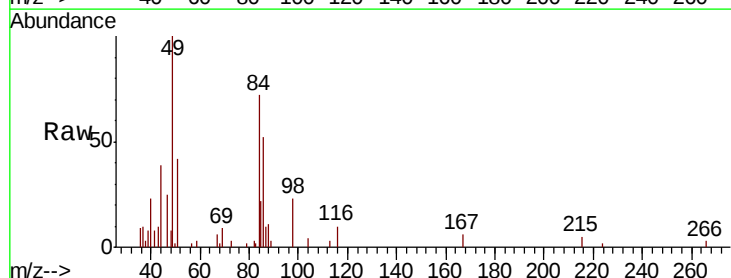
Ion Ratio Lower Upper

84 100

49 133.1 113.5 170.3

51 42.2 34.8 52.2

86 64.1 47.9 71.9

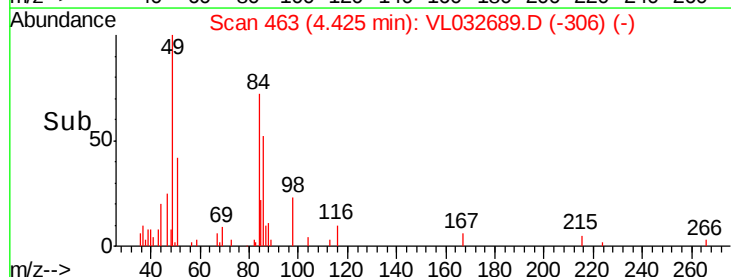
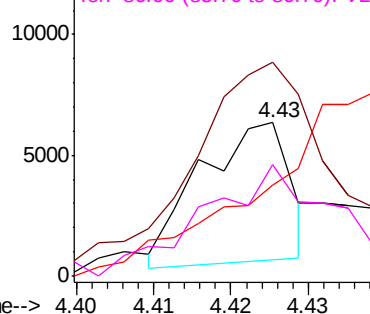


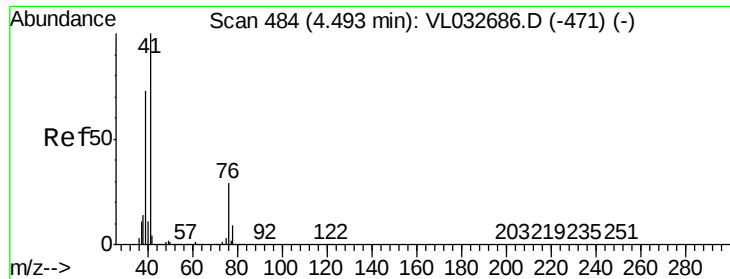
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allyl Chloride

Concen: 0.002 ppbv

RT: 4.47 min Scan# 477

Delta R.T. -0.02 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

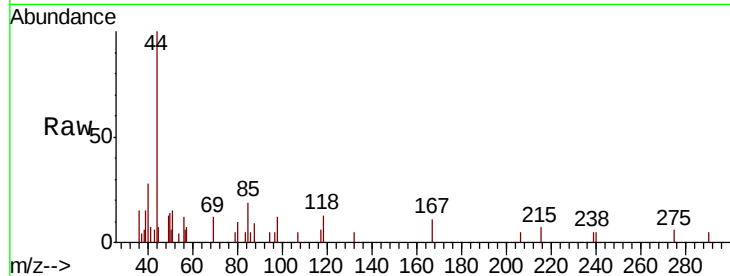
Instrument :

MSVOA_L

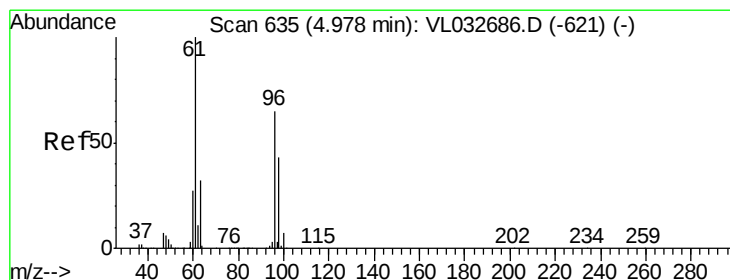
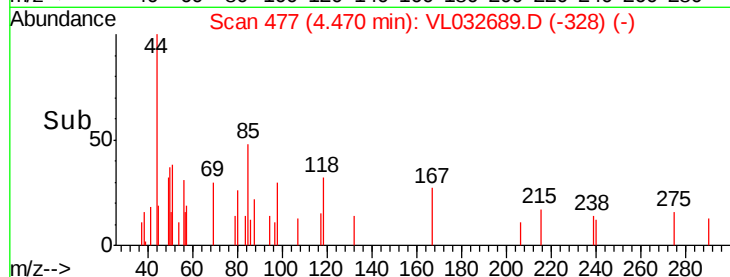
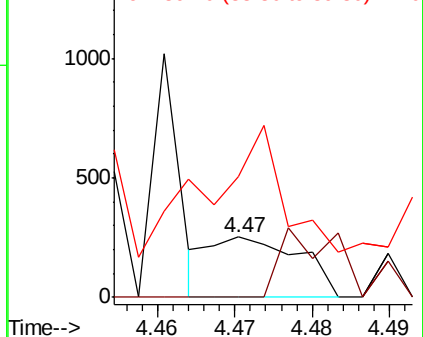
ClientSampleId :

QC101818 CAN 10440

Tgt Ion:	41	Resp:	204
Ion	Ratio	Lower	Upper
41	100		
76	82.4	24.3	36.5#
39	288.2	60.3	90.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.001 ppbv

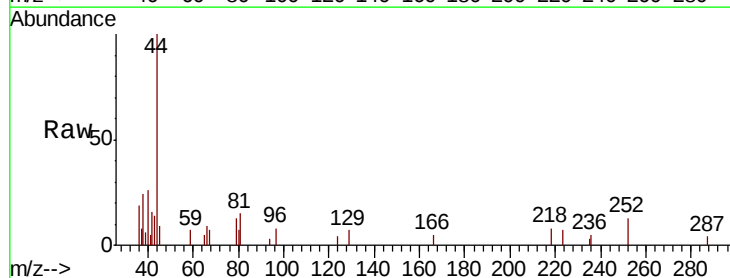
RT: 4.87 min Scan# 601

Delta R.T. -0.11 min

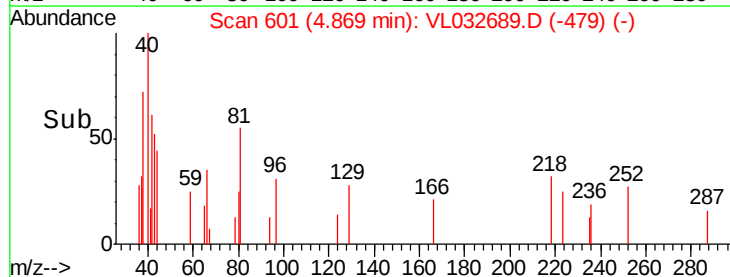
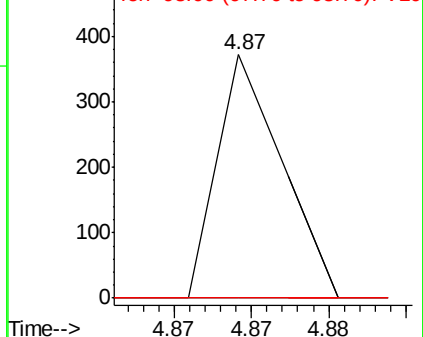
Lab File: VL032689.D

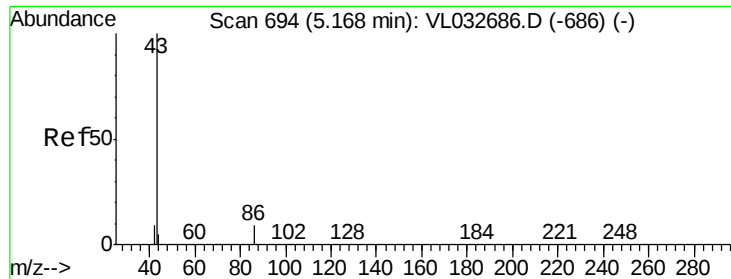
Acq: 24 Oct 2018 16:11

Tgt Ion:	96	Resp:	108
Ion	Ratio	Lower	Upper
96	100		
61	0.0	140.4	210.6#
98	0.0	55.0	82.6#



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 0.001 ppbv

RT: 5.16 min Scan# 691

Delta R.T. -0.01 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

MSVOA_L

ClientSampleId :

QC101818 CAN 10440

Tgt Ion: 43 Resp: 306

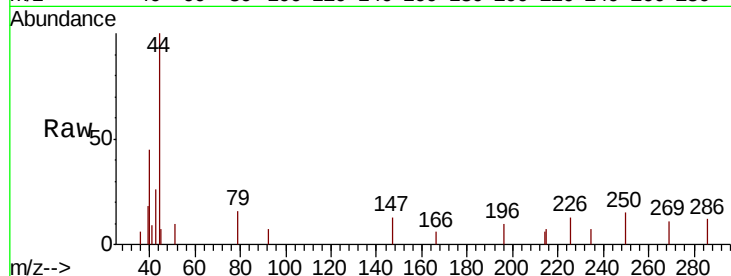
Ion Ratio Lower Upper

43 100

86 0.0 6.1 9.1#

42 0.0 7.4 11.2#

44 162.5 4.2 6.2#

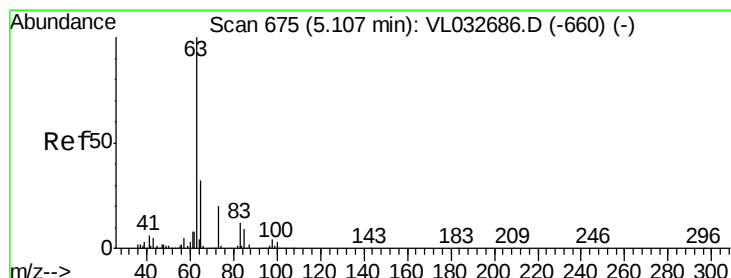
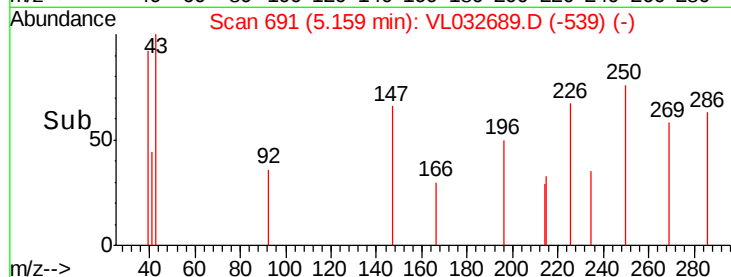
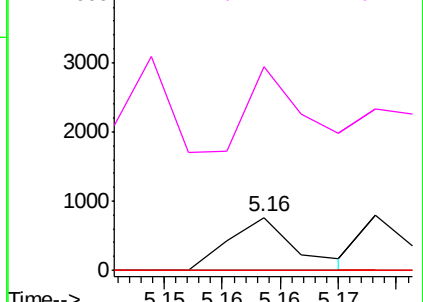


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.000 ppbv

RT: 5.11 min Scan# 676

Delta R.T. 0.01 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

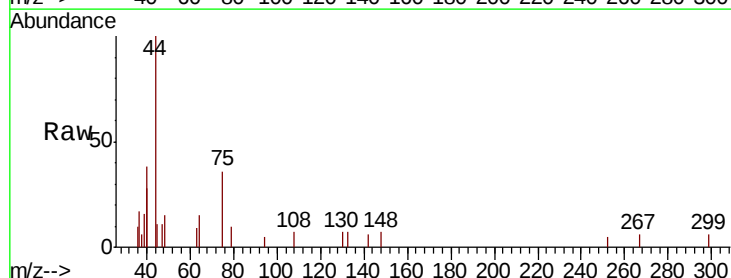
Tgt Ion: 63 Resp: 51

Ion Ratio Lower Upper

63 100

98 0.0 2.1 6.3#

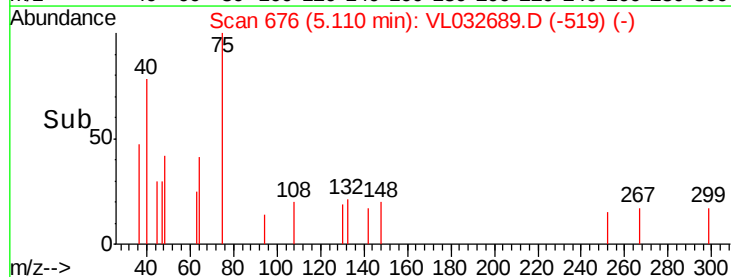
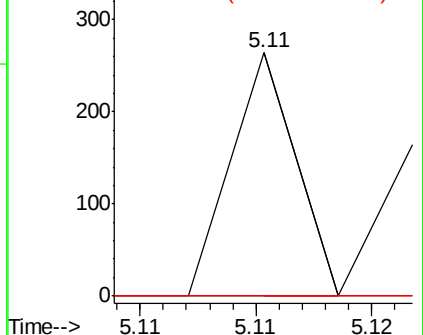
100 0.0 1.2 3.6#

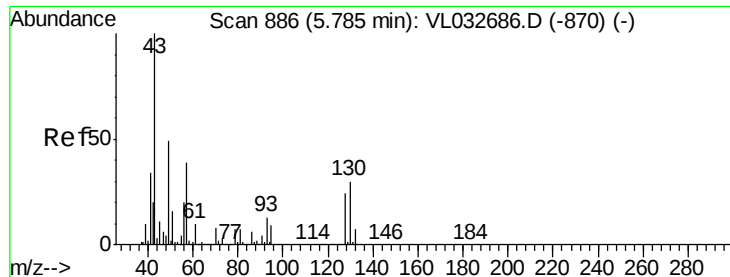


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

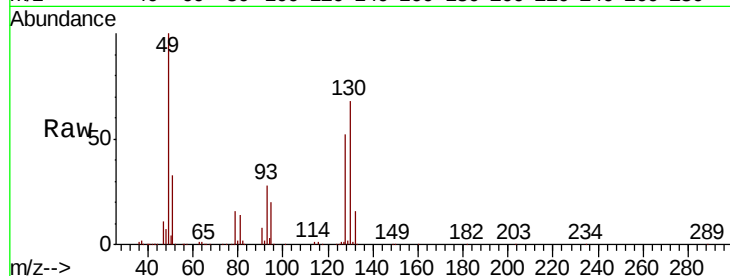




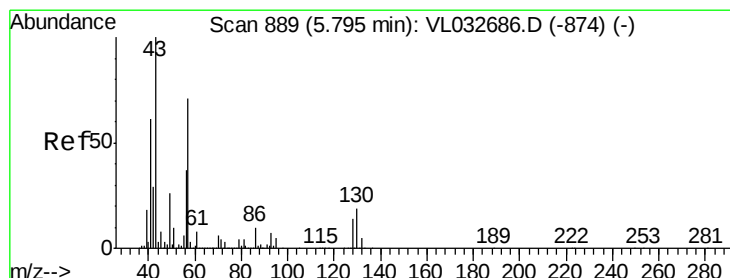
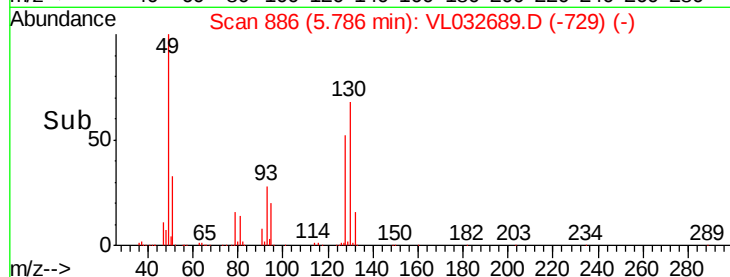
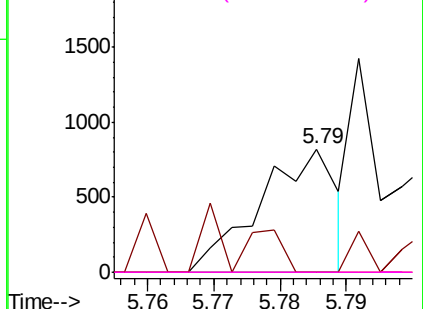
#25
Ethyl Acetate
Concen: 0.002 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.01 min
Lab File: VL032689.D
Acq: 24 Oct 2018 16:11

Instrument :
MSVOA_L
ClientSampleId :
QC101818 CAN 10440

Tgt Ion:	43	Resp:	665
Ion	Ratio	Lower	Upper
43	100		
45	60.8	8.0	12.0#
61	0.0	8.0	12.0#
70	0.0	5.9	8.9#

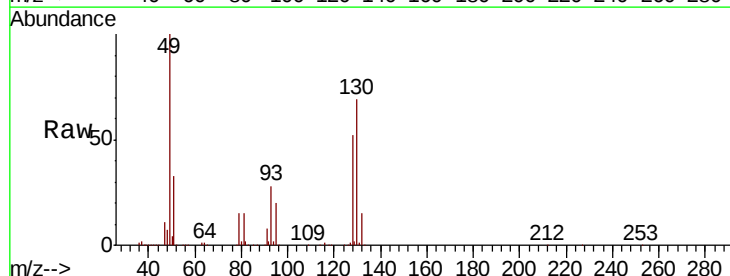


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

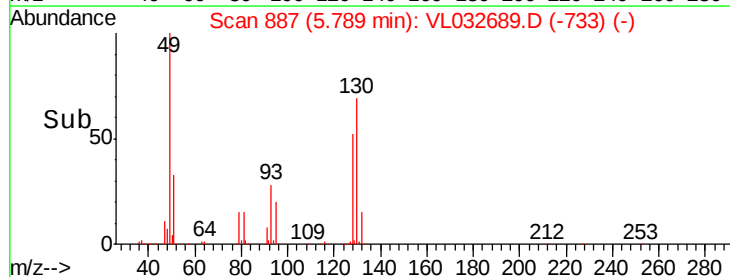
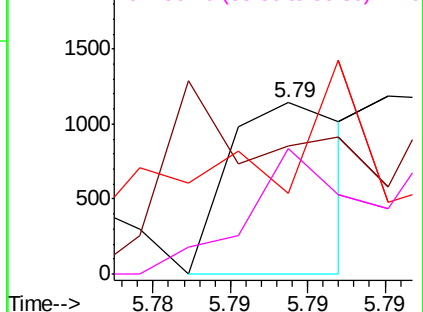


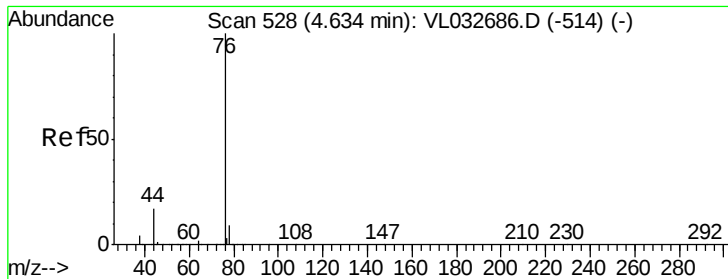
#26
Hexane
Concen: 0.004 ppbv
RT: 5.79 min Scan# 887
Delta R.T. -0.00 min
Lab File: VL032689.D
Acq: 24 Oct 2018 16:11

Tgt Ion:	57	Resp:	607
Ion	Ratio	Lower	Upper
57	100		
41	335.7	67.4	101.0#
43	0.0	171.9	257.9#
56	0.0	42.6	63.8#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.001 ppbv

RT: 4.63 min Scan# 527

Delta R.T. -0.00 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

MSVOA_L

ClientSampleId :

QC101818 CAN 10440

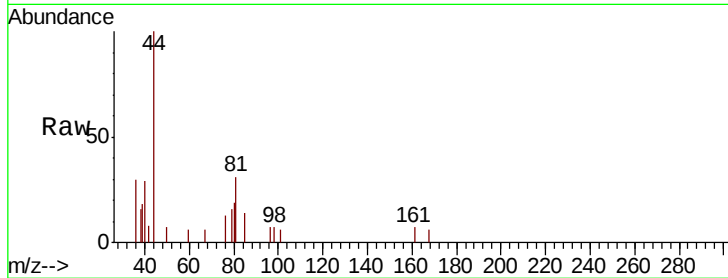
Tgt Ion: 76 Resp: 110

Ion Ratio Lower Upper

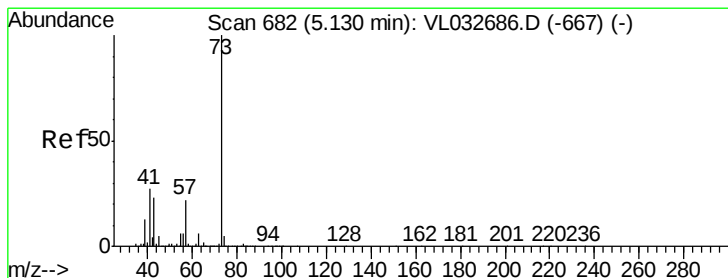
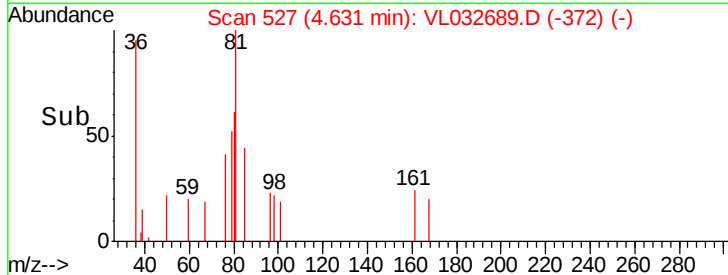
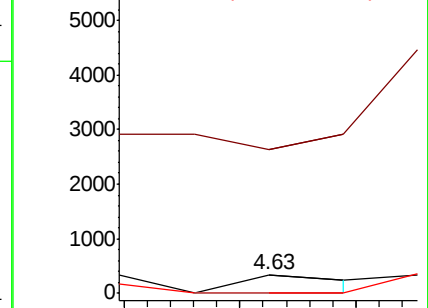
76 100

44 0.0 13.7 20.5#

78 0.0 7.4 11.2#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.000 ppbv

RT: 5.16 min Scan# 692

Delta R.T. 0.04 min

Lab File: VL032689.D

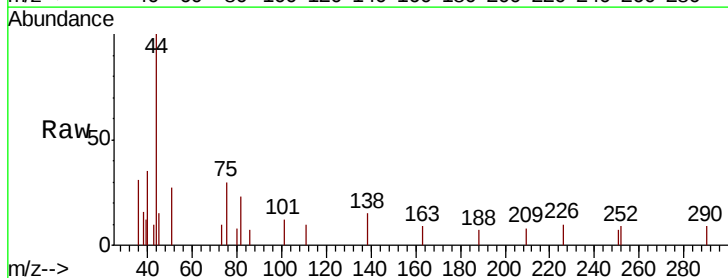
Acq: 24 Oct 2018 16:11

Tgt Ion: 73 Resp: 76

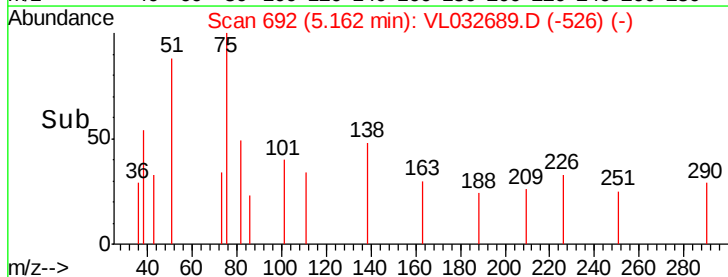
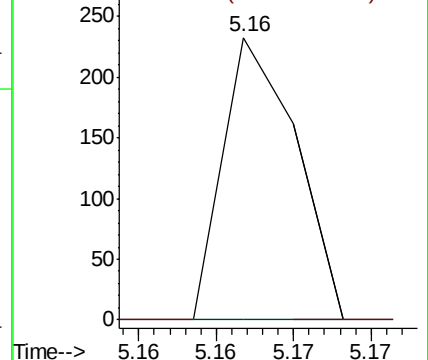
Ion Ratio Lower Upper

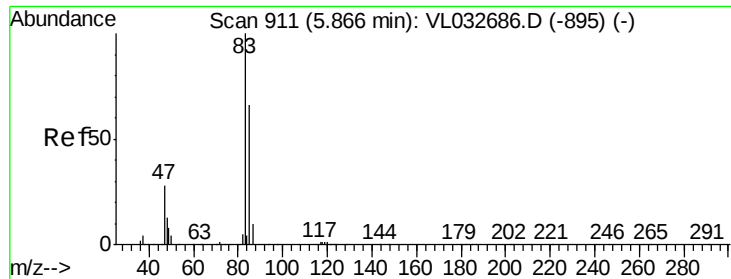
73 100

57 71.1 18.0 27.0#



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

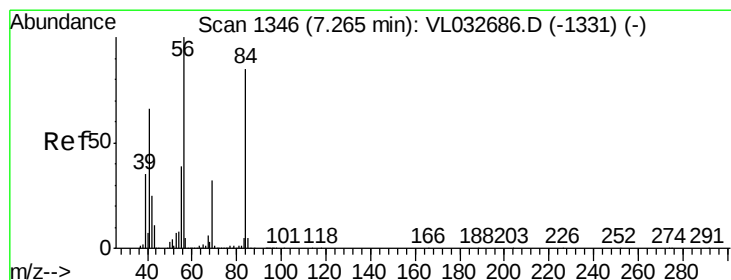
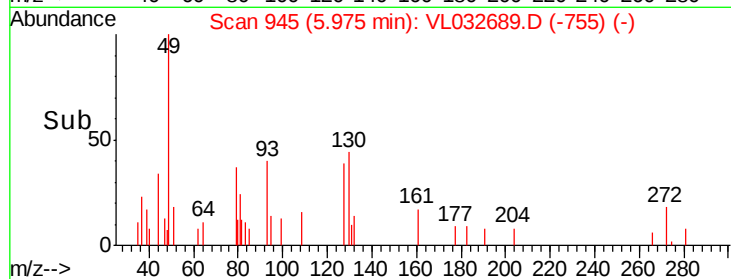
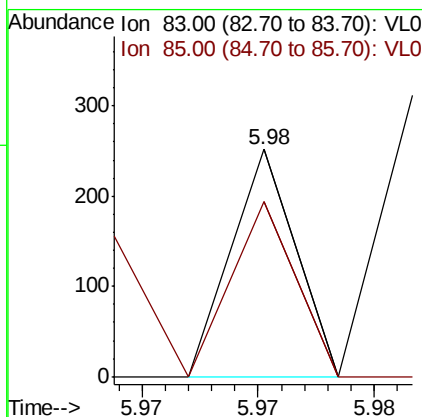
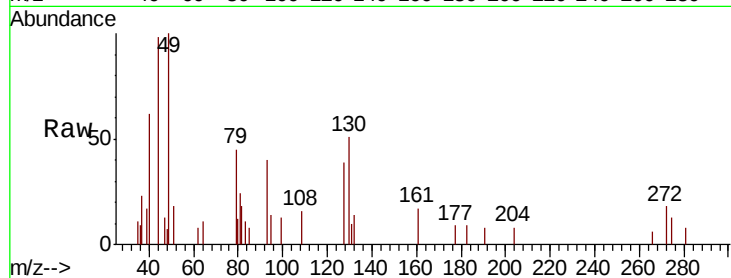




#29
Chloroform
Concen: 0.000 ppbv
RT: 5.98 min Scan# 945
Delta R.T. 0.11 min
Lab File: VL032689.D
Acq: 24 Oct 2018 16:11

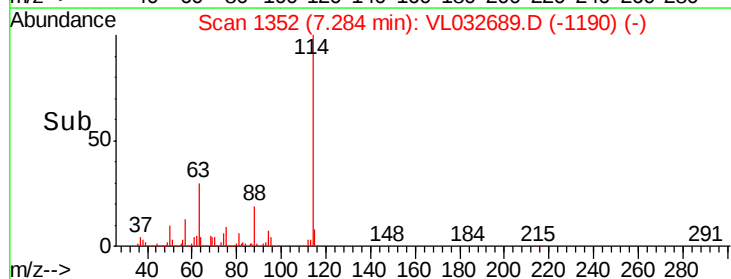
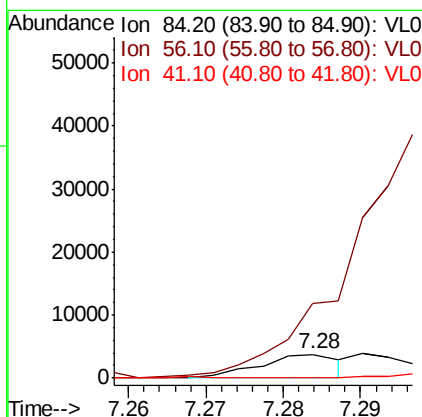
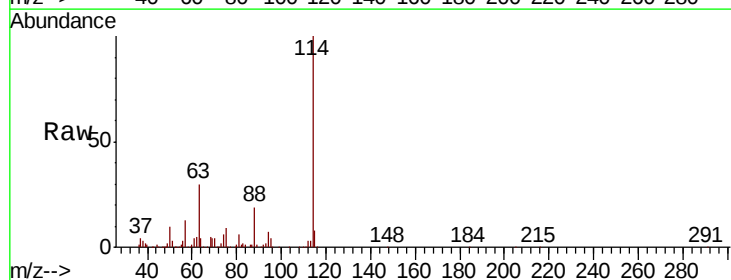
Instrument :
MSVOA_L
ClientSampleId :
QC101818 CAN 10440

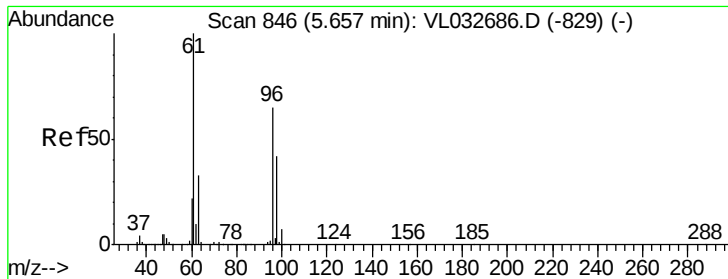
Tgt Ion: 83 Resp: 49
Ion Ratio Lower Upper
83 100
85 77.0 53.0 79.6



#30
Cyclohexane
Concen: 0.023 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. 0.02 min
Lab File: VL032689.D
Acq: 24 Oct 2018 16:11

Tgt Ion: 84 Resp: 2679
Ion Ratio Lower Upper
84 100
56 0.0 108.3 162.5#
41 2.4 64.8 97.2#



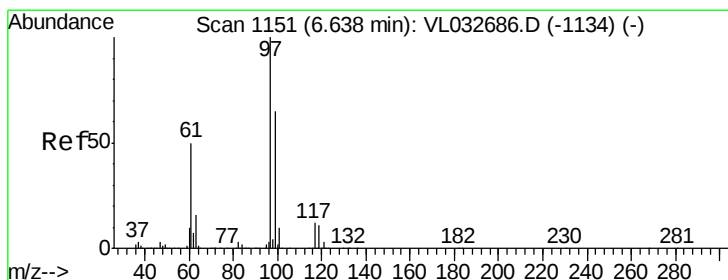
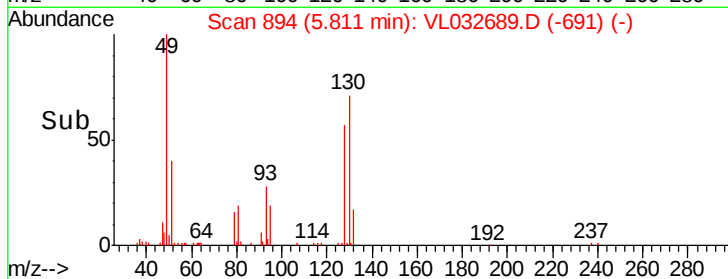
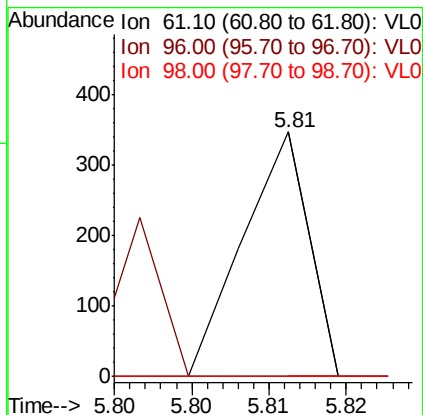
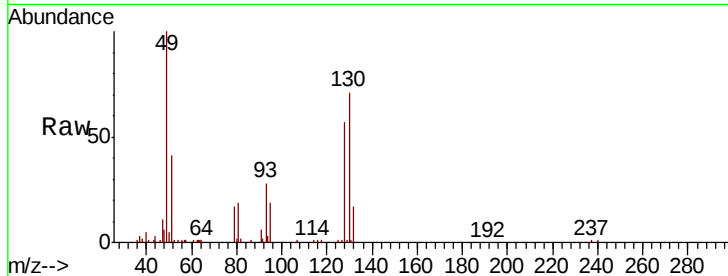


#31

cis-1,2-Dichloroethene
 Concen: 0.001 ppbv
 RT: 5.81 min Scan# 894
 Delta R.T. 0.15 min
 Lab File: VL032689.D
 Acq: 24 Oct 2018 16:11

Instrument :
 MSVOA_L
 ClientSampleId :
 QC101818 CAN 10440

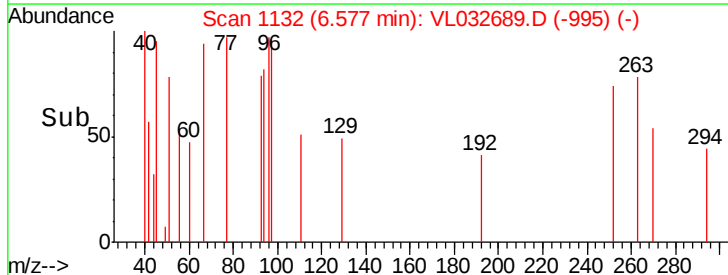
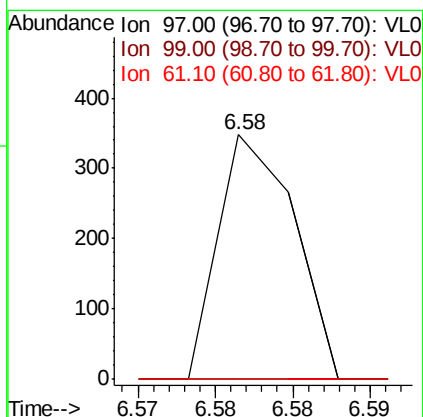
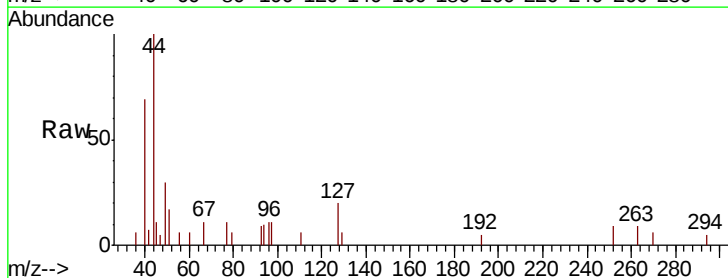
Tgt Ion	Ratio	Lower	Upper
61	100		
96	0.0	51.8	77.6#
98	0.0	33.8	50.6#

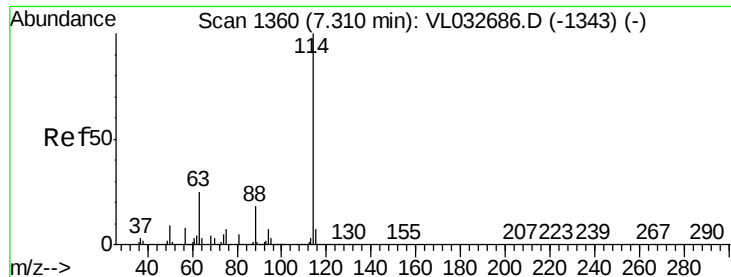


#32

1,1,1-Trichloroethane
 Concen: 0.000 ppbv
 RT: 6.58 min Scan# 1132
 Delta R.T. -0.06 min
 Lab File: VL032689.D
 Acq: 24 Oct 2018 16:11

Tgt Ion	Ratio	Lower	Upper
97	100		
99	107.6	52.0	78.0#
61	89.8	40.7	61.1#

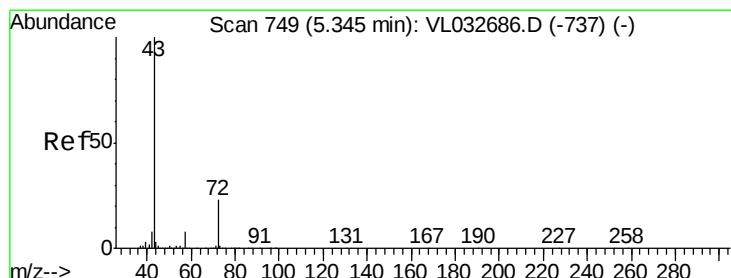
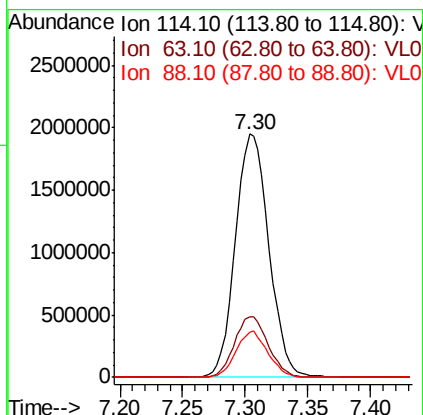
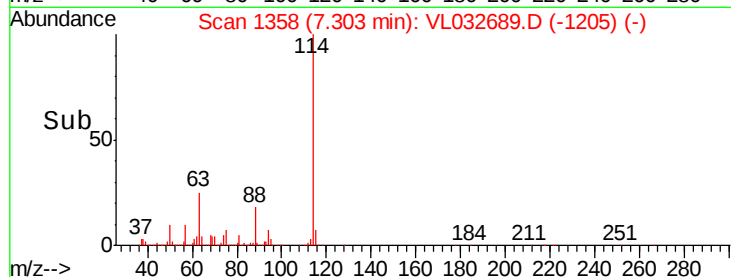
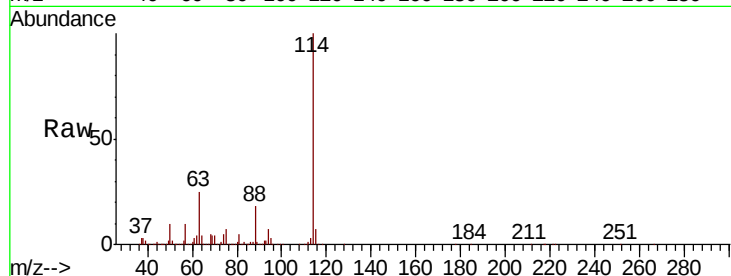




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1358
 Delta R.T. -0.01 min
 Lab File: VL032689.D
 Acq: 24 Oct 2018 16:11

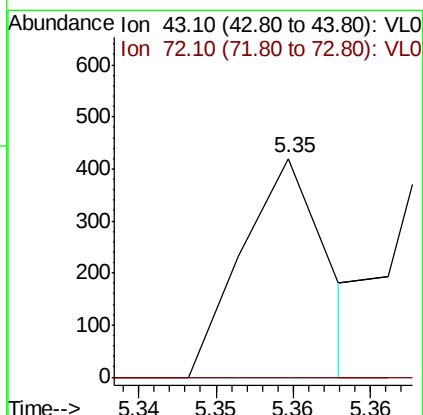
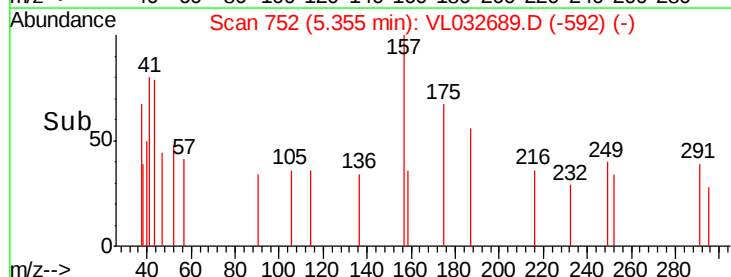
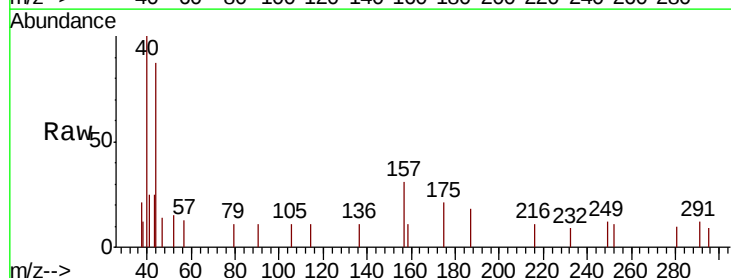
Instrument :
 MSVOA_L
 ClientSampleId :
 QC101818 CAN 10440

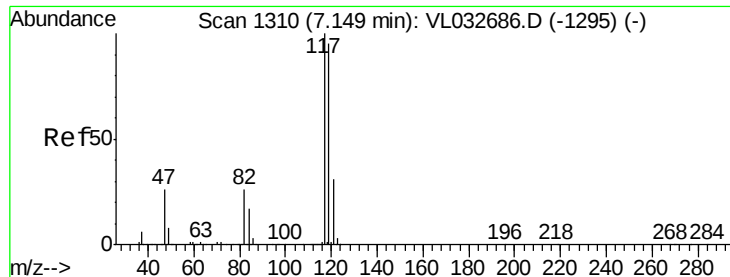
Tgt Ion:114 Resp: 3624985
 Ion Ratio Lower Upper
 114 100
 63 25.1 21.7 32.5
 88 18.0 14.9 22.3



#34
 2-Butanone
 Concen: 0.001 ppbv
 RT: 5.35 min Scan# 752
 Delta R.T. 0.02 min
 Lab File: VL032689.D
 Acq: 24 Oct 2018 16:11

Tgt Ion: 43 Resp: 161
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.6 27.8#





#35

Carbon Tetrachloride

Concen: 0.000 ppbv

RT: 7.27 min Scan# 1347

Delta R.T. 0.12 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

MSVOA_L

ClientSampleId :

QC101818 CAN 10440

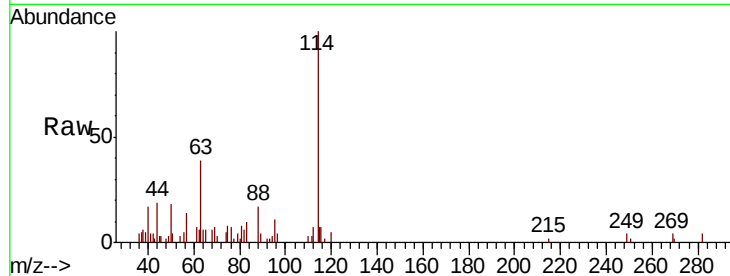
Tgt Ion:117 Resp: 116

Ion Ratio Lower Upper

117 100

119 201.8 75.7 113.5#

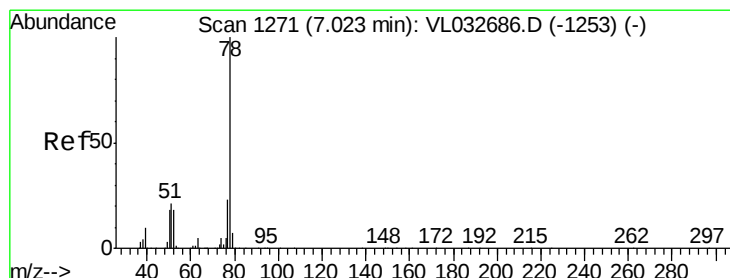
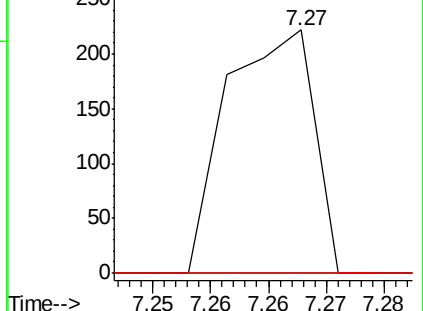
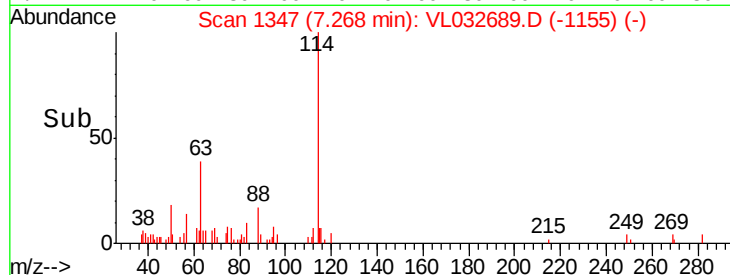
121 0.0 24.7 37.1#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.001 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. -0.01 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

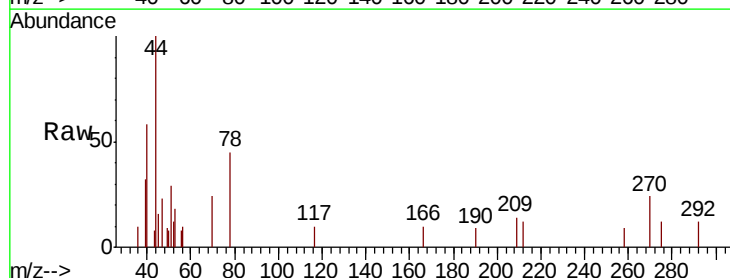
Tgt Ion: 78 Resp: 411

Ion Ratio Lower Upper

78 100

77 0.0 18.1 27.1#

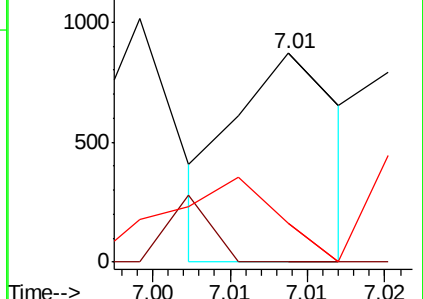
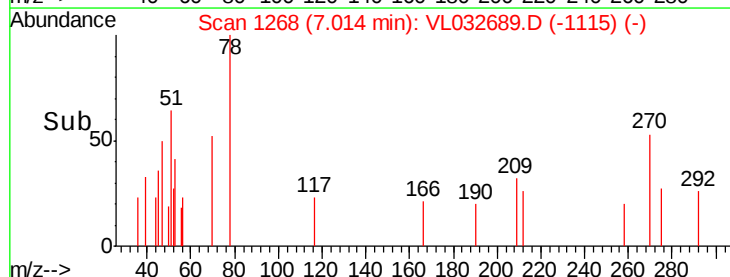
50 35.1 15.1 22.7#

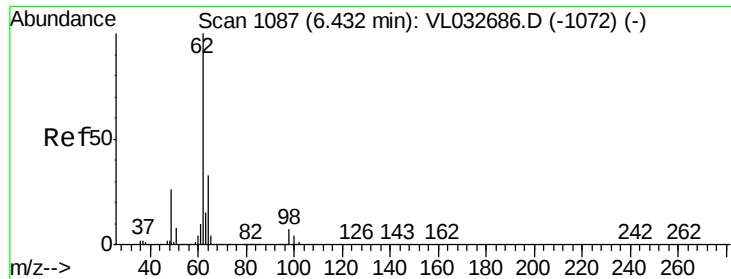


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

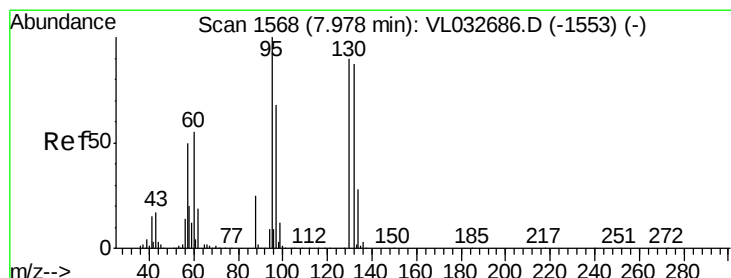
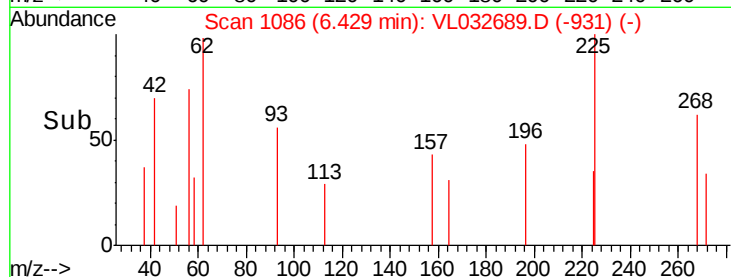
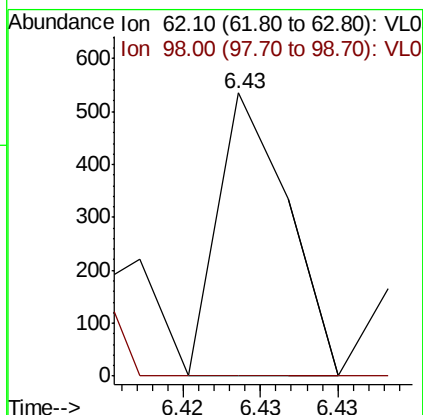
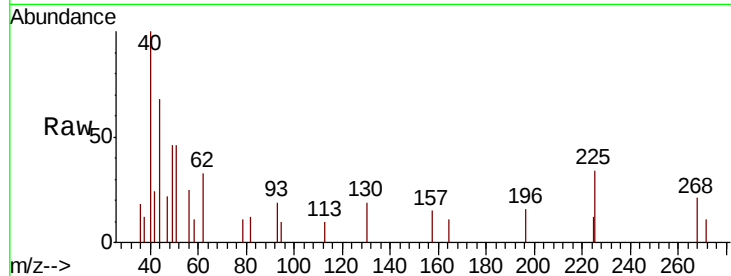




#37
 1,2-Dichloroethane
 Concen: 0.001 ppbv
 RT: 6.43 min Scan# 1086
 Delta R.T. -0.00 min
 Lab File: VL032689.D
 Acq: 24 Oct 2018 16:11

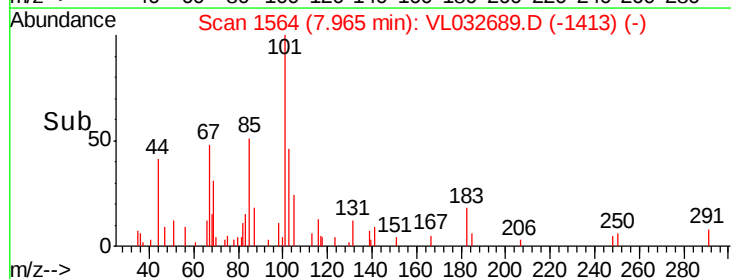
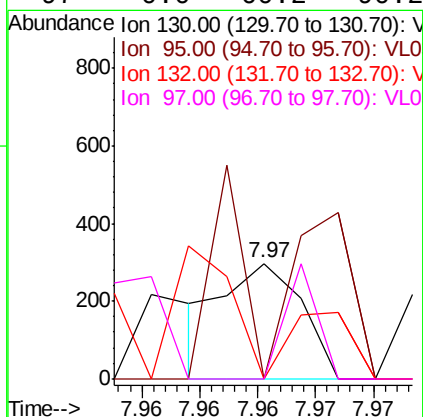
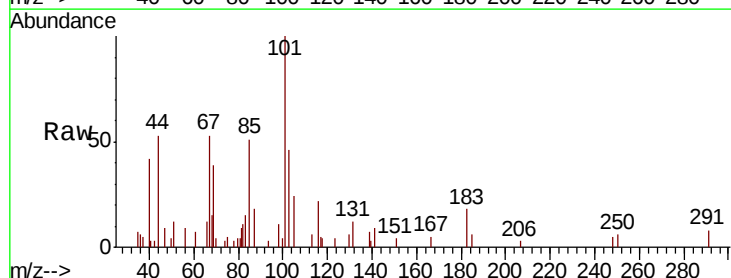
Instrument :
 MSVOA_L
 ClientSampleId :
 QC101818 CAN 10440

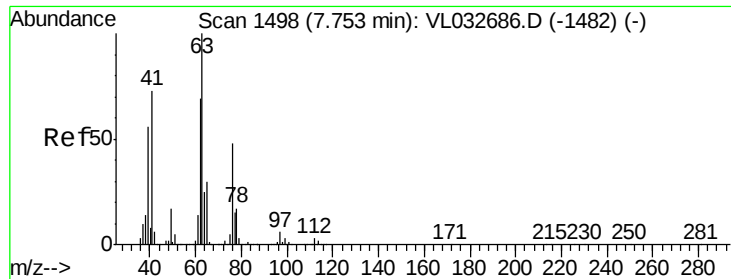
Tgt Ion: 62 Resp: 168
 Ion Ratio Lower Upper
 62 100
 98 0.0 4.4 6.6#



#38
 Trichloroethene
 Concen: 0.001 ppbv
 RT: 7.97 min Scan# 1564
 Delta R.T. -0.01 min
 Lab File: VL032689.D
 Acq: 24 Oct 2018 16:11

Tgt Ion: 130 Resp: 139
 Ion Ratio Lower Upper
 130 100
 95 0.0 93.4 140.0#
 132 0.0 76.5 114.7#
 97 0.0 60.2 90.2#





#39

1,2-Dichloropropane

Concen: 7.971 ppbv

RT: 7.31 min Scan# 1359

Delta R.T. -0.45 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

MSVOA_L

ClientSampleId :

QC101818 CAN 10440

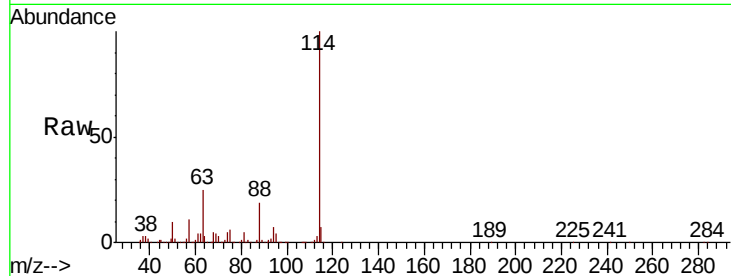
Tgt Ion: 63 Resp: 906046

Ion Ratio Lower Upper

63 100

41 0.0 56.2 84.4#

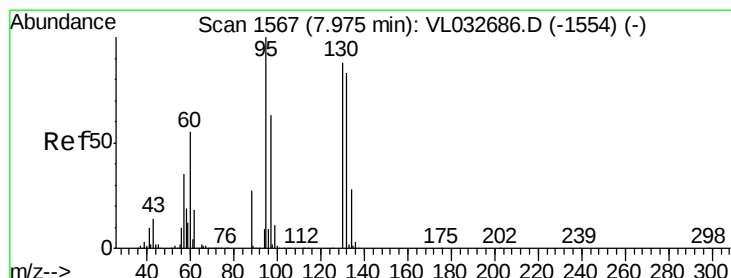
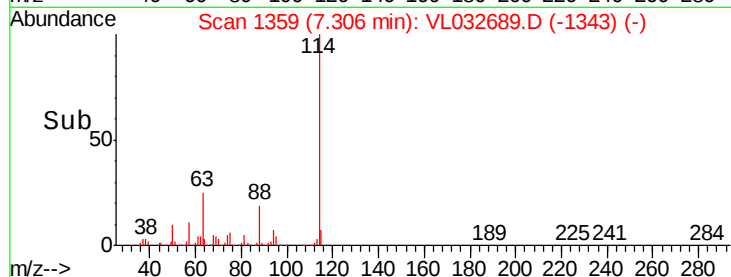
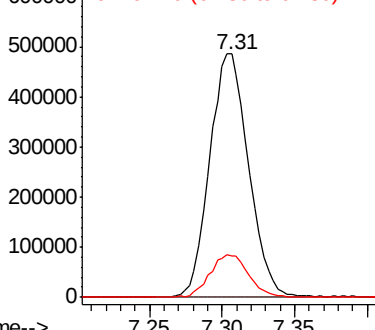
62 17.1 54.4 81.6#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 0.002 ppbv

RT: 7.98 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Tgt Ion: 88 Resp: 92

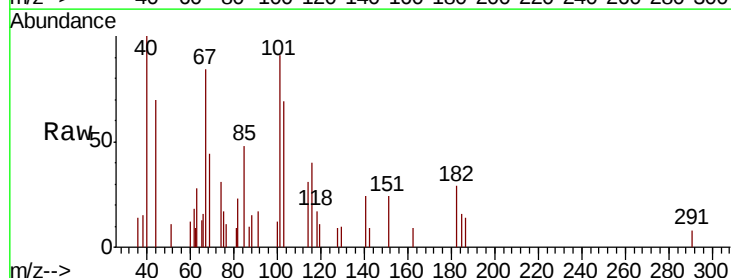
Ion Ratio Lower Upper

88 100

58 0.0 104.0 156.0#

43 258.7 0.0 0.0#

57 160.9 0.0 0.0#

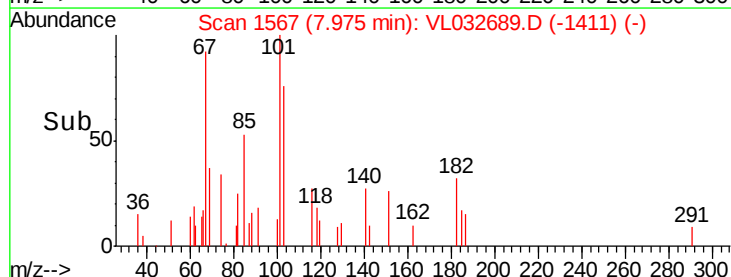
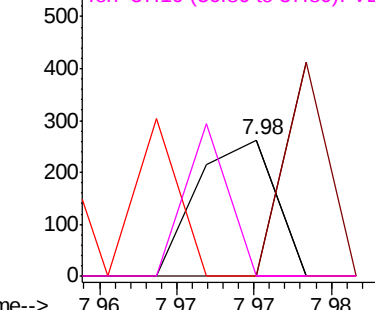


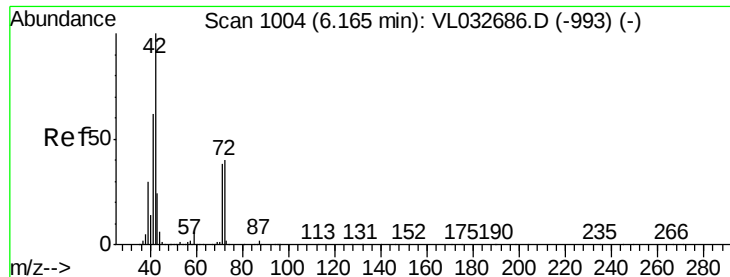
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 0.001 ppbv

RT: 6.16 min Scan# 1003

Delta R.T. -0.00 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

MSVOA_L

ClientSampleId :

QC101818 CAN 10440

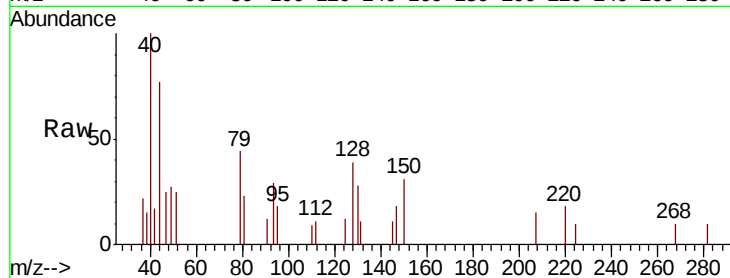
Tgt Ion: 42 Resp: 85

Ion Ratio Lower Upper

42 100

72 34.1 32.4 48.6

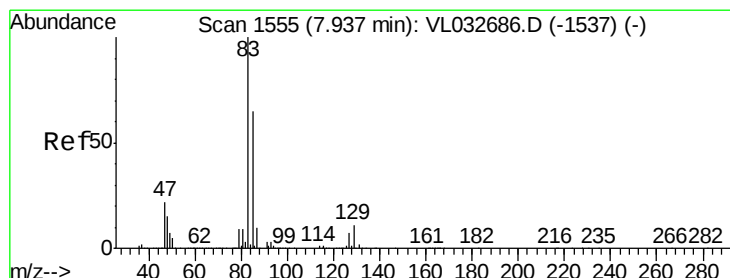
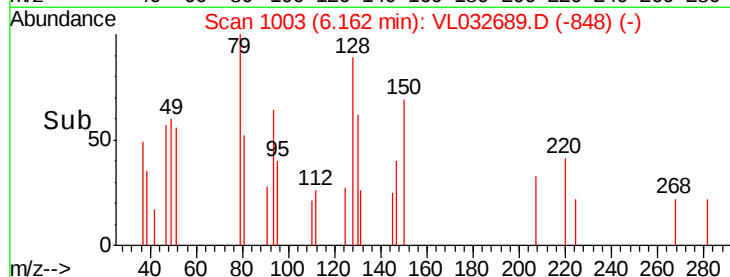
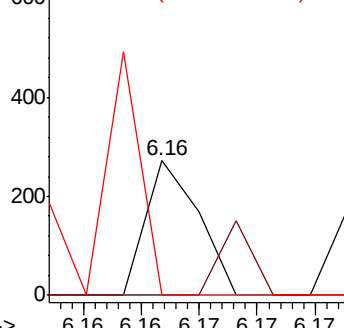
71 154.1 31.3 46.9#



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 0.001 ppbv

RT: 7.93 min Scan# 1552

Delta R.T. -0.01 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

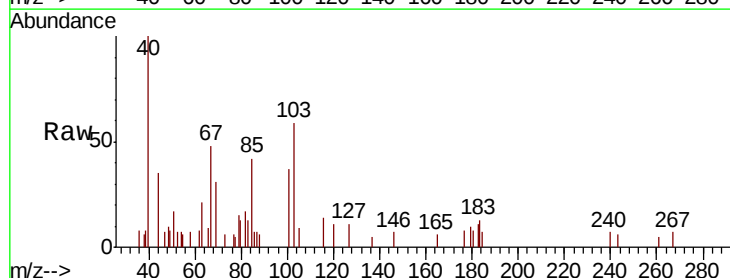
Tgt Ion: 83 Resp: 165

Ion Ratio Lower Upper

83 100

85 274.9 52.4 78.6#

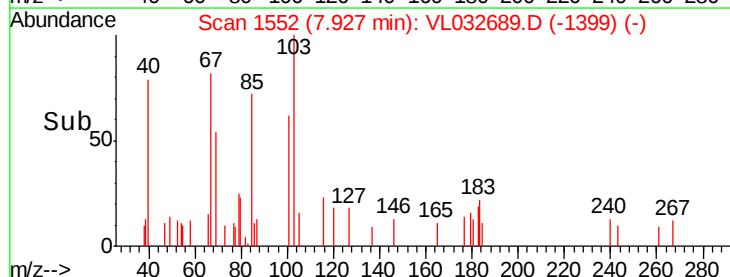
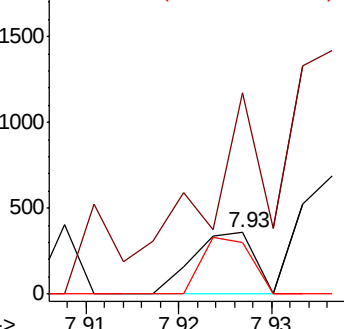
127 83.8 6.1 9.1#

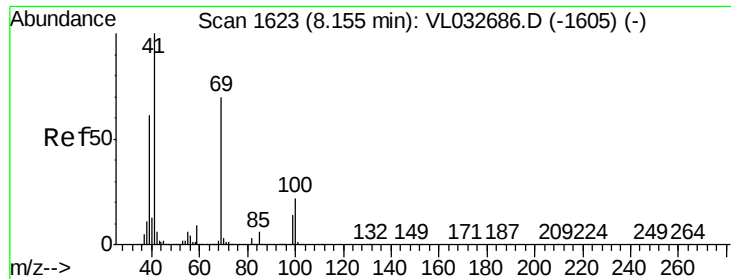


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 0.001 ppbv

RT: 8.14 min Scan# 1617

Delta R.T. -0.02 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

MSVOA_L

ClientSampleId :

QC101818 CAN 10440

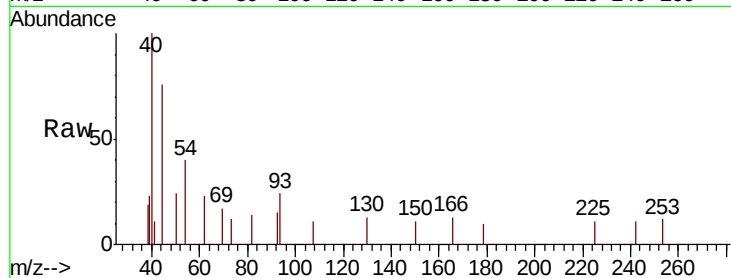
Tgt Ion: 69 Resp: 84

Ion Ratio Lower Upper

69 100

41 101.2 113.2 169.8#

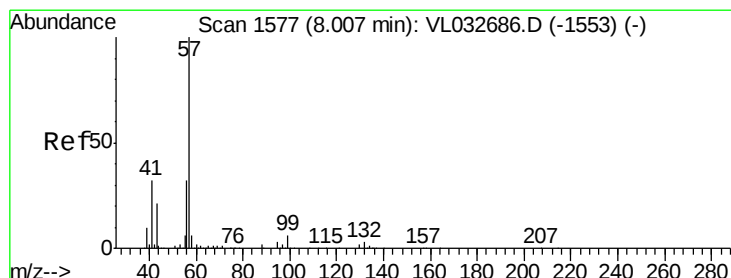
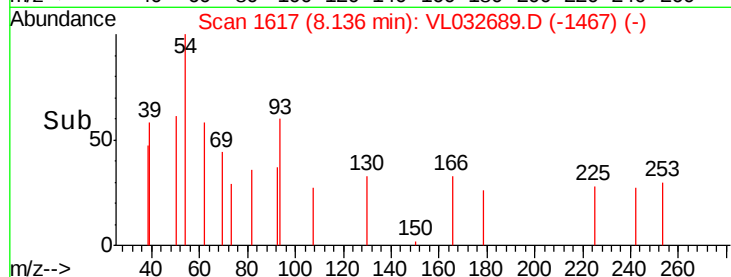
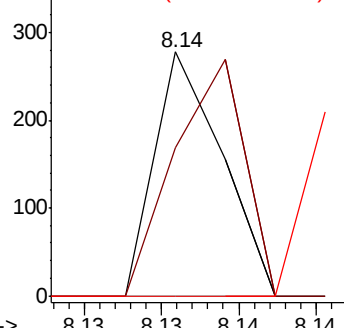
100 84.5 24.4 36.6#



Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.000 ppbv

RT: 7.99 min Scan# 1572

Delta R.T. -0.01 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

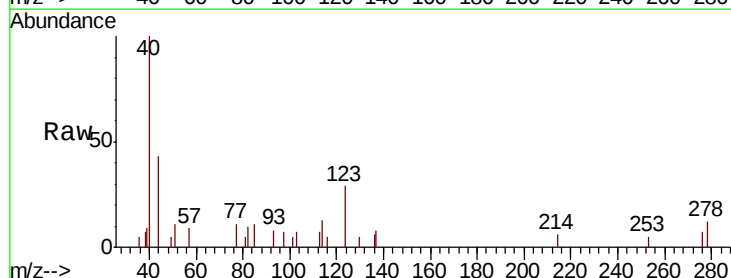
Tgt Ion: 57 Resp: 55

Ion Ratio Lower Upper

57 100

41 0.0 24.7 37.1#

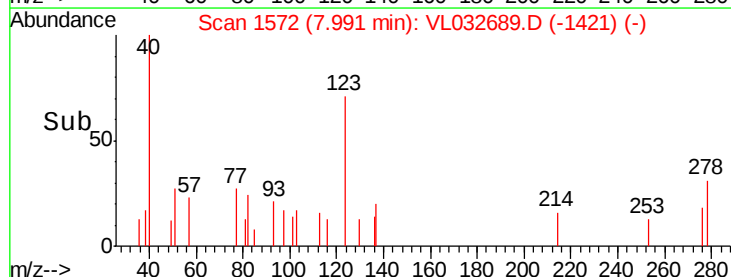
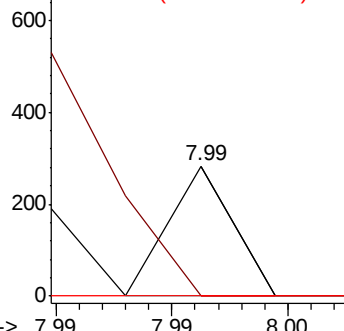
56 0.0 25.0 37.4#

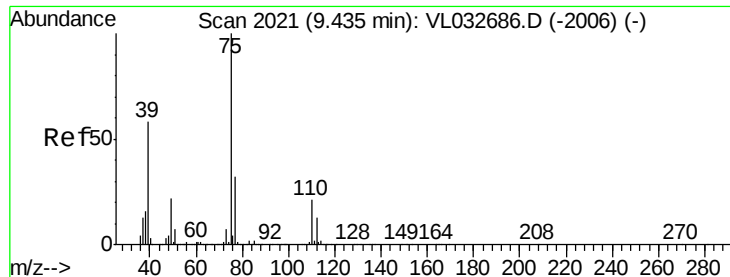


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 0.001 ppbv

RT: 9.55 min Scan# 2057

Delta R.T. 0.12 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

MSVOA_L

ClientSampleId :

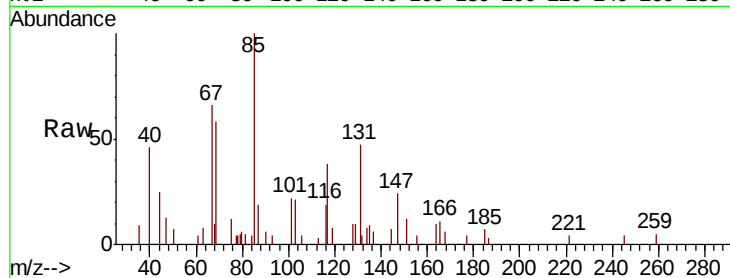
QC101818 CAN 10440

Tgt Ion: 75 Resp: 212

Ion Ratio Lower Upper

75 100

77 36.0 25.3 37.9



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.55

500

400

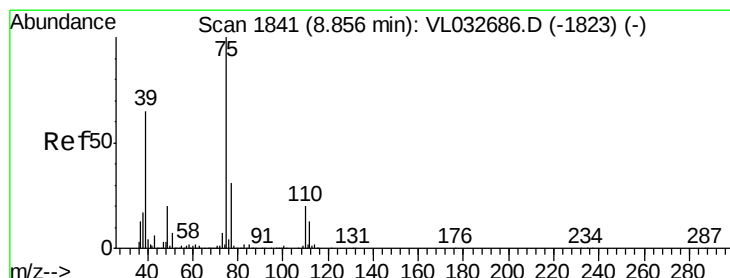
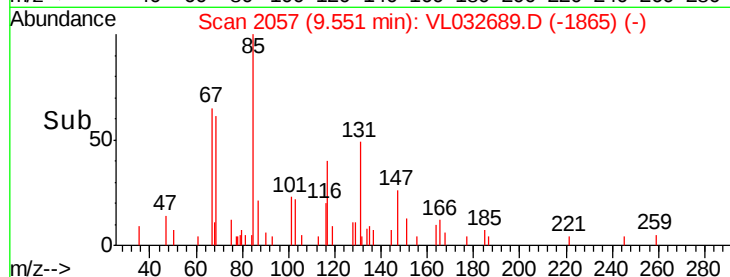
300

200

100

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 0.000 ppbv

RT: 8.78 min Scan# 1816

Delta R.T. -0.08 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

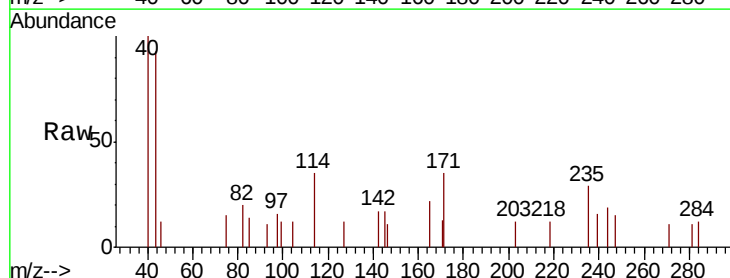
Tgt Ion: 75 Resp: 80

Ion Ratio Lower Upper

75 100

39 0.0 50.9 76.3#

77 0.0 25.8 38.6#



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

800

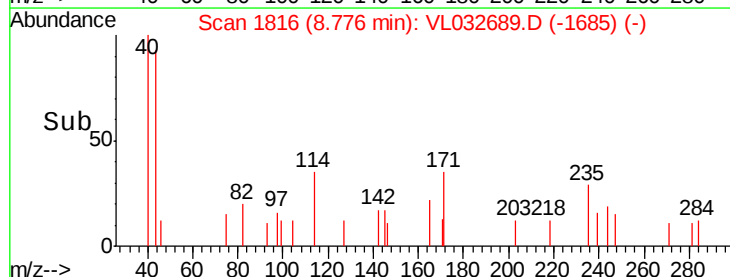
600

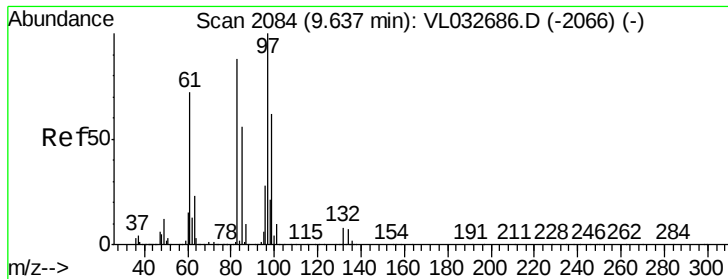
400

200

0

Time-->





#47

1,1,2-Trichloroethane

Concen: 0.002 ppbv

RT: 9.62 min Scan# 2078

Delta R.T. -0.02 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

MSVOA_L

ClientSampleId :

QC101818 CAN 10440

Tgt Ion: 97 Resp: 265

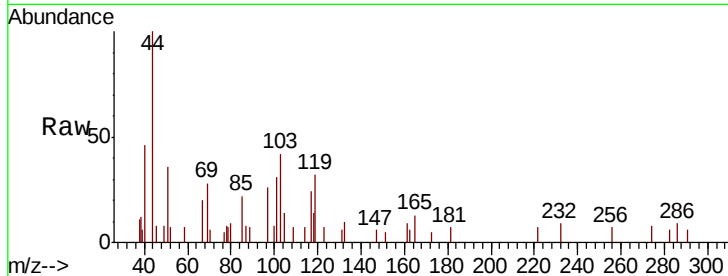
Ion Ratio Lower Upper

97 100

83 0.0 73.5 110.3#

85 37.6 45.8 68.6#

99 0.0 50.6 75.8#

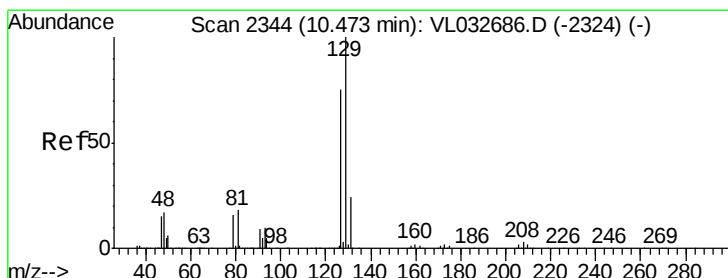
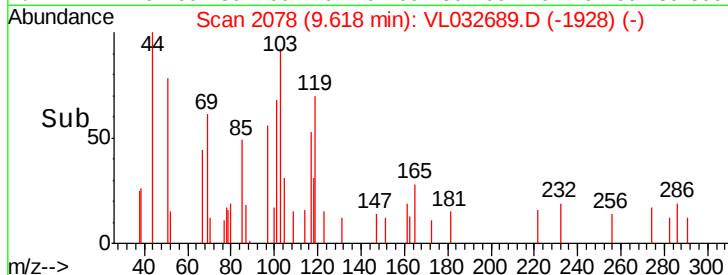
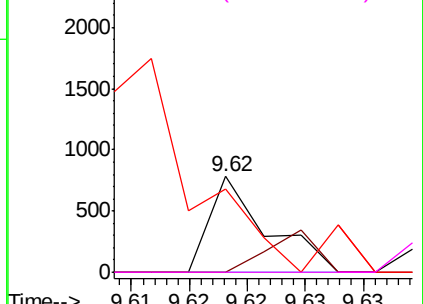


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 0.001 ppbv

RT: 10.46 min Scan# 2341

Delta R.T. -0.01 min

Lab File: VL032689.D

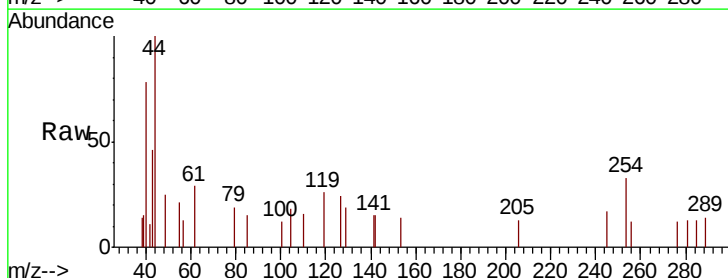
Acq: 24 Oct 2018 16:11

Tgt Ion: 129 Resp: 223

Ion Ratio Lower Upper

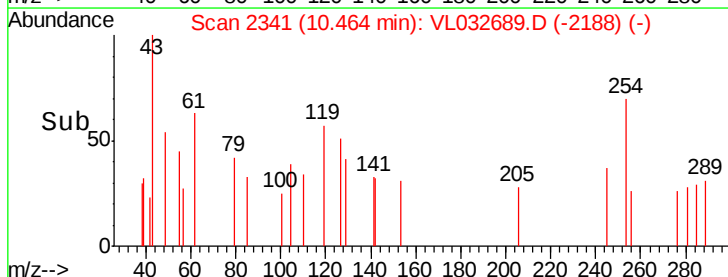
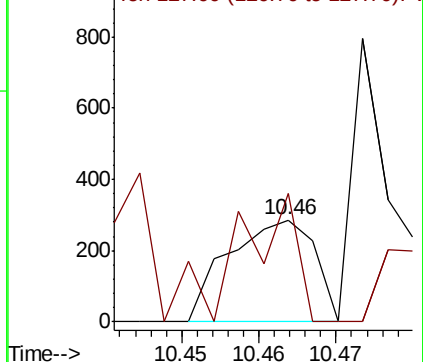
129 100

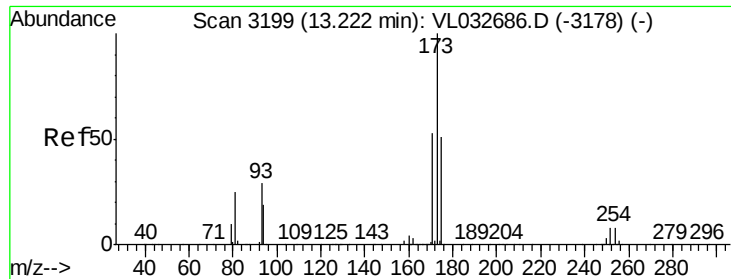
127 74.9 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.002 ppbv

RT: 13.21 min Scan# 3196

Delta R.T. -0.01 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

MSVOA_L

ClientSampleId :

QC101818 CAN 10440

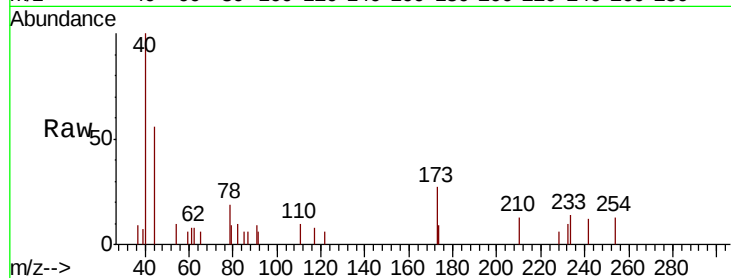
Tgt Ion: 173 Resp: 437

Ion Ratio Lower Upper

173 100

175 0.0 39.0 58.4#

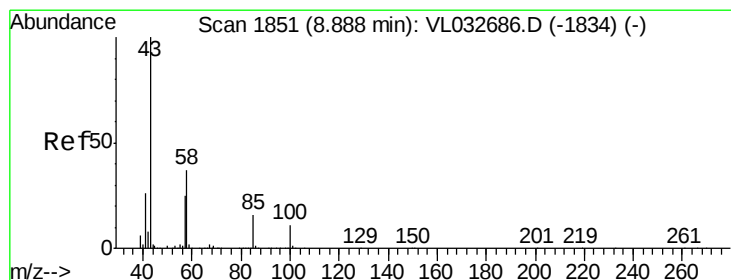
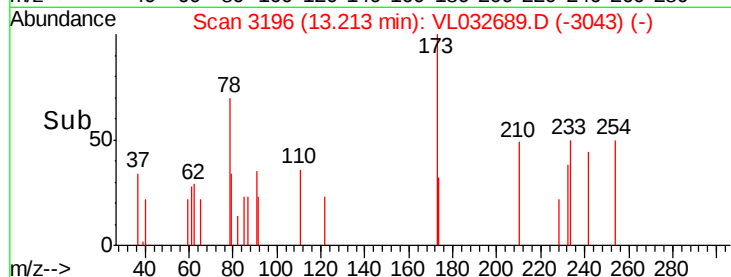
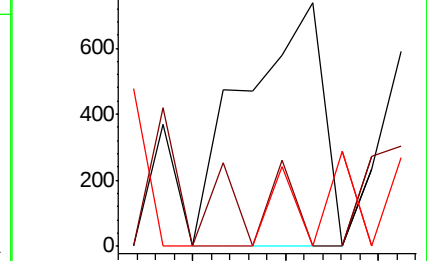
171 0.0 42.2 63.2#



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.000 ppbv

RT: 8.88 min Scan# 1847

Delta R.T. -0.01 min

Lab File: VL032689.D

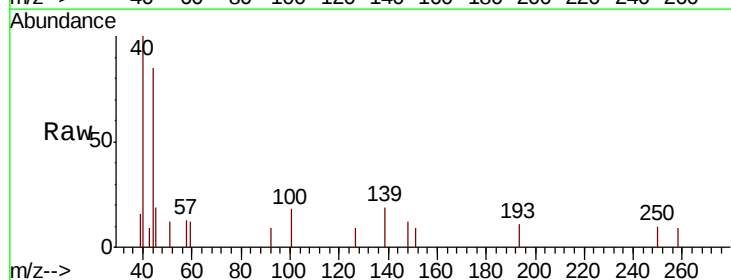
Acq: 24 Oct 2018 16:11

Tgt Ion: 43 Resp: 60

Ion Ratio Lower Upper

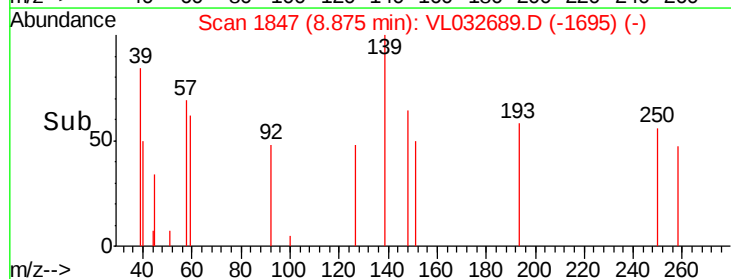
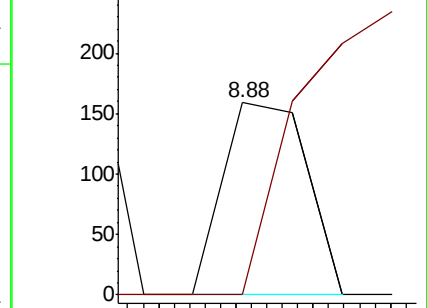
43 100

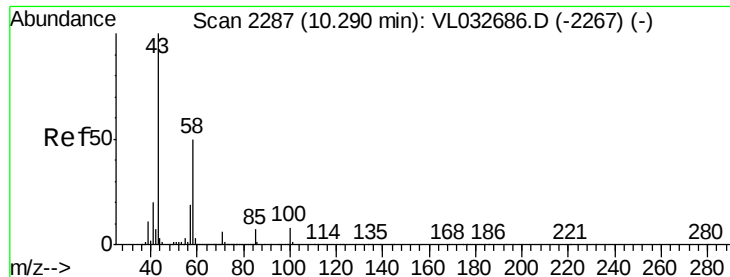
58 0.0 29.7 44.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.001 ppbv

RT: 10.28 min Scan# 2284

Delta R.T. -0.01 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

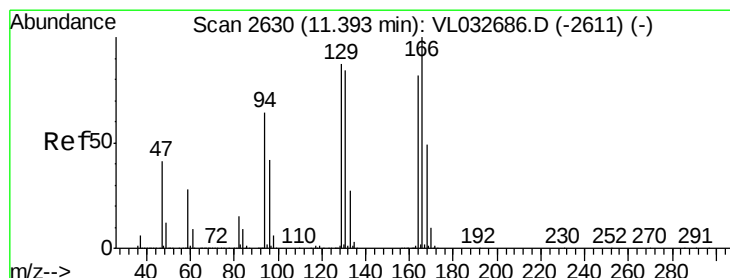
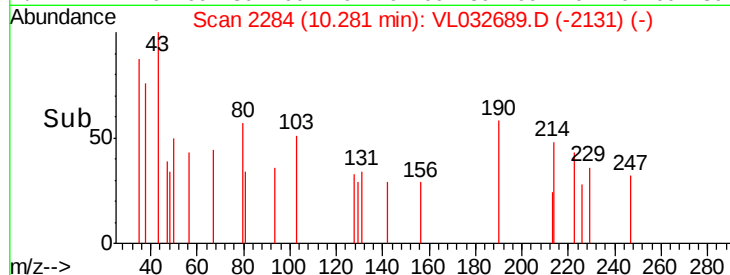
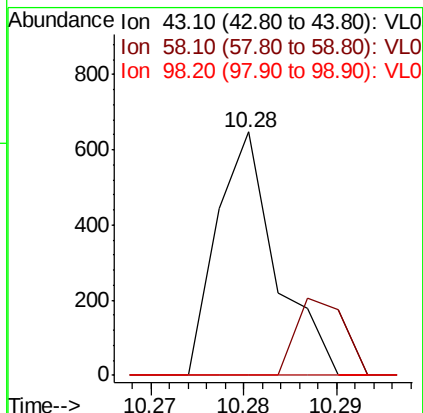
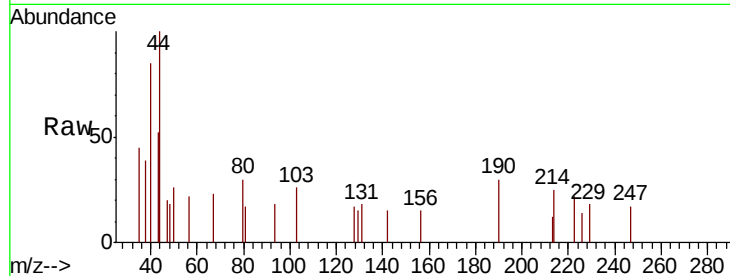
Instrument :

MSVOA_L

ClientSampleId :

QC101818 CAN 10440

Tgt Ion:	43	Resp:	287
Ion	Ratio	Lower	Upper
43	100		
58	25.4	40.4	60.6#
98	0.0	0.4	0.6#



#52

Tetrachloroethene

Concen: 0.002 ppbv

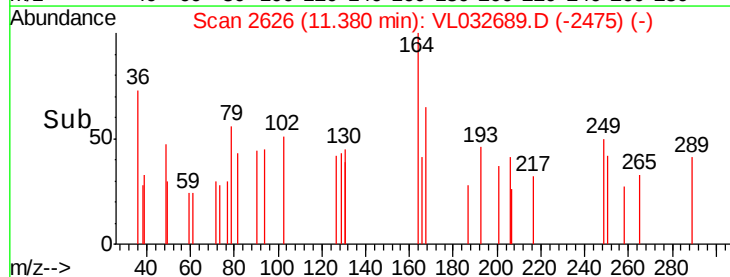
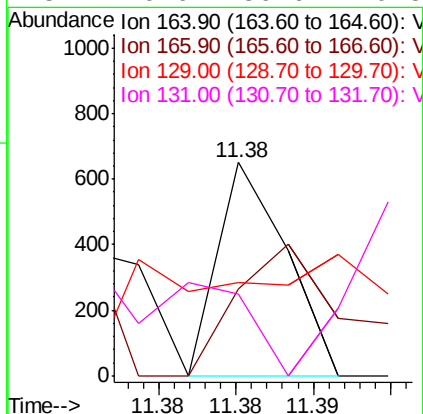
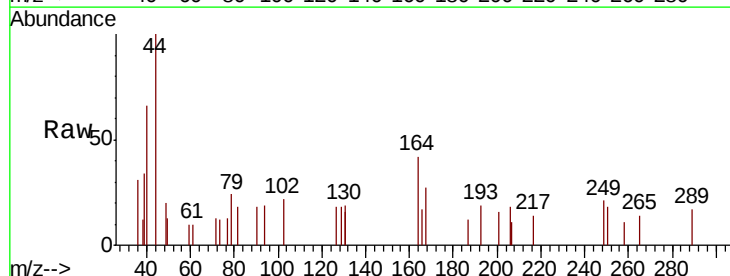
RT: 11.38 min Scan# 2626

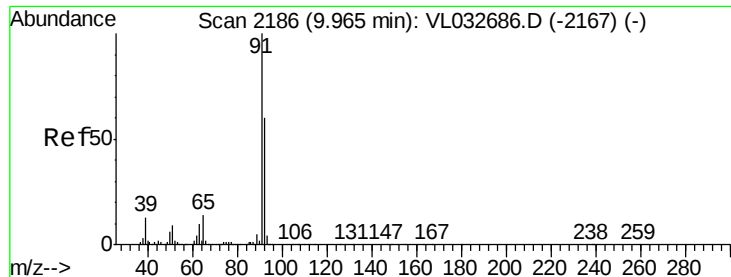
Delta R.T. -0.01 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Tgt Ion:	164	Resp:	199
Ion	Ratio	Lower	Upper
164	100		
166	40.7	100.5	150.7#
129	3.7	90.0	135.0#
131	6.6	86.6	129.8#





#53

Toluene

Concen: 0.001 ppbv

RT: 9.98 min Scan# 2191

Delta R.T. 0.02 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

MSVOA_L

ClientSampleId :

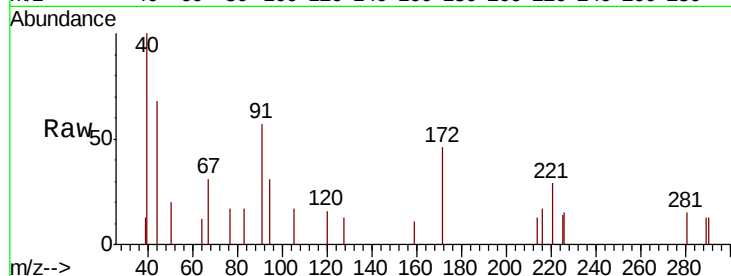
QC101818 CAN 10440

Tgt Ion: 91 Resp: 248

Ion Ratio Lower Upper

91 100

92 61.3 48.4 72.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

800

600

400

200

0

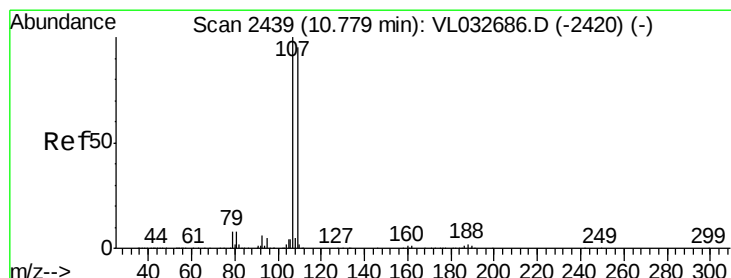
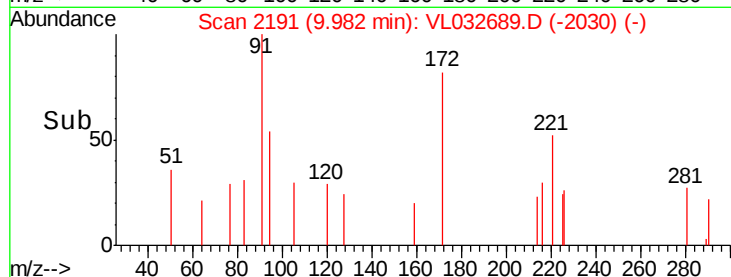
9.97

9.98

9.98

9.99

Time-->



#54

1,2-Dibromoethane

Concen: 0.004 ppbv

RT: 10.78 min Scan# 2440

Delta R.T. 0.01 min

Lab File: VL032689.D

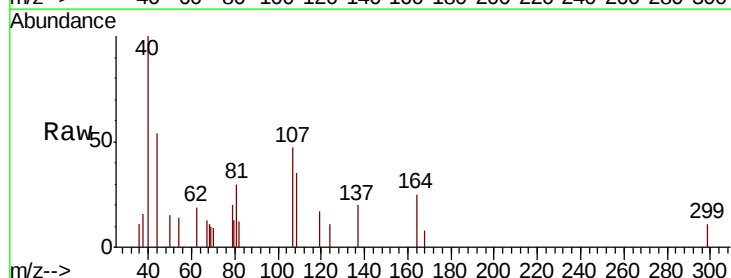
Acq: 24 Oct 2018 16:11

Tgt Ion: 107 Resp: 723

Ion Ratio Lower Upper

107 100

109 75.5 75.3 112.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

1000

800

600

400

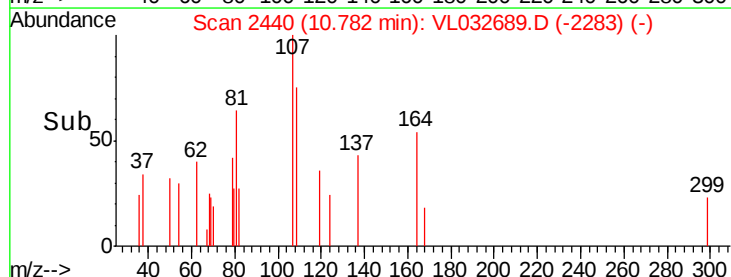
200

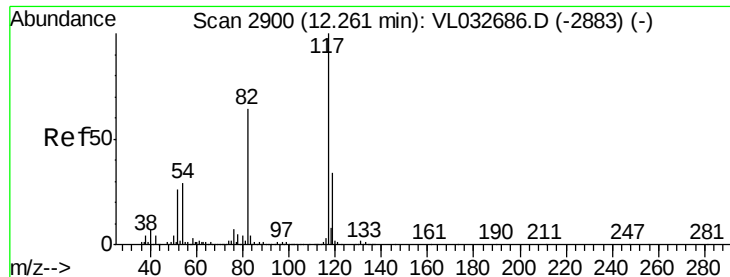
0

10.76

10.78

Time-->





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2898

Delta R.T. -0.00 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

MSVOA_L

ClientSampleId :

QC101818 CAN 10440

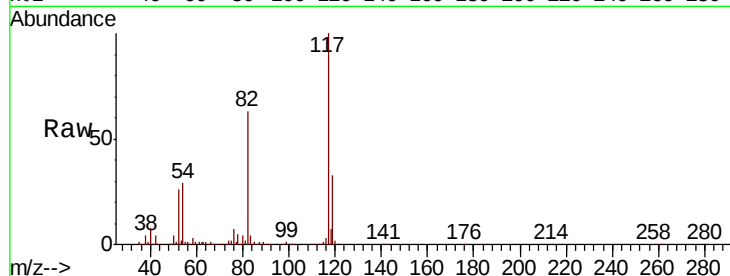
Tgt Ion:117 Resp: 3482825

Ion Ratio Lower Upper

117 100

82 64.3 52.7 79.1

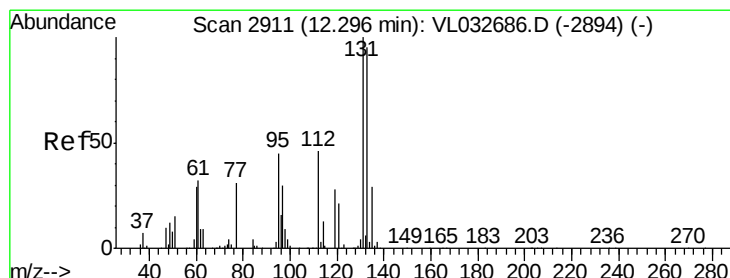
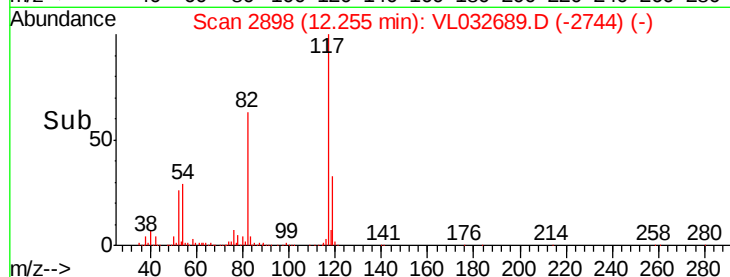
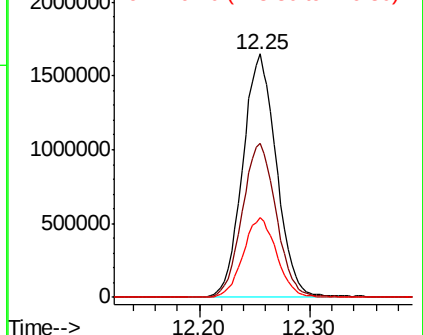
119 32.7 26.7 40.1



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.000 ppbv

RT: 12.29 min Scan# 2910

Delta R.T. -0.00 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

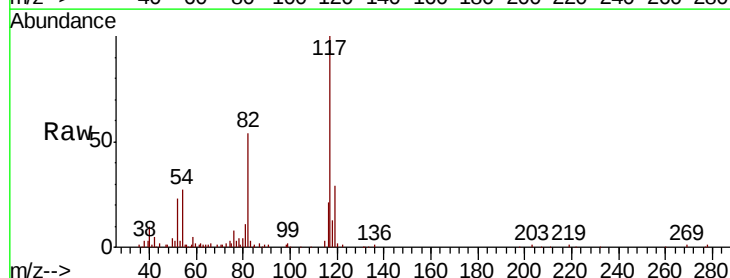
Tgt Ion:131 Resp: 49

Ion Ratio Lower Upper

131 100

133 0.0 75.4 113.2#

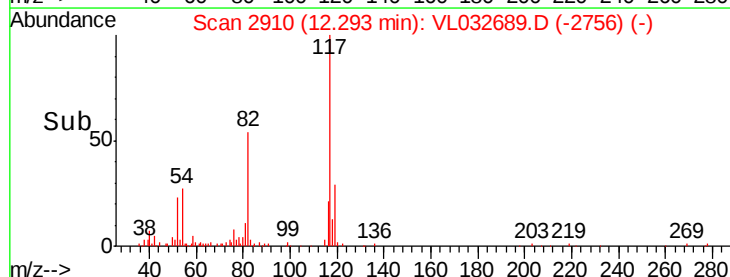
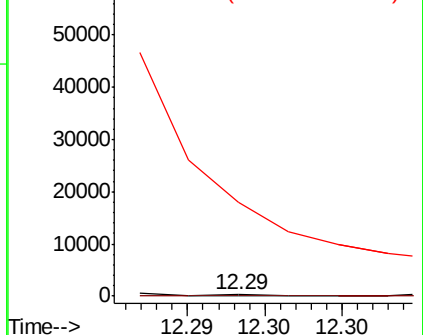
119 0.0 49.1 73.7#

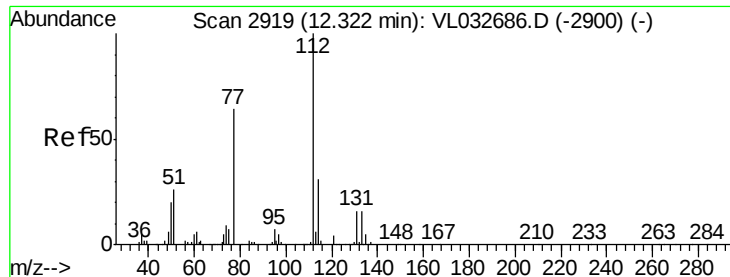


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 0.002 ppbv

RT: 12.32 min Scan# 2917

Delta R.T. -0.00 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

MSVOA_L

ClientSampleId :

QC101818 CAN 10440

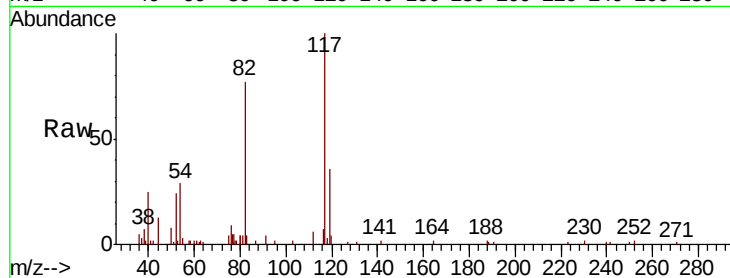
Tgt Ion: 112 Resp: 565

Ion Ratio Lower Upper

112 100

77 56.8 56.8 85.2#

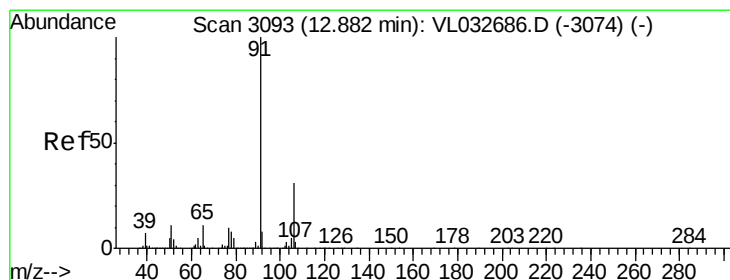
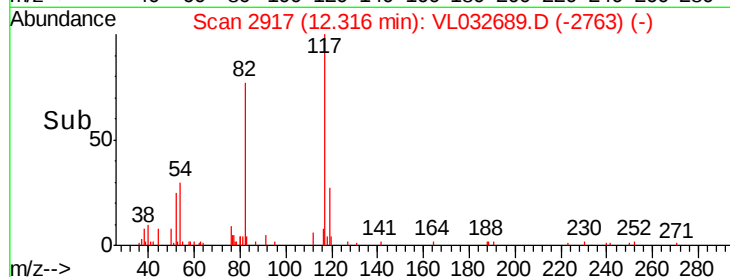
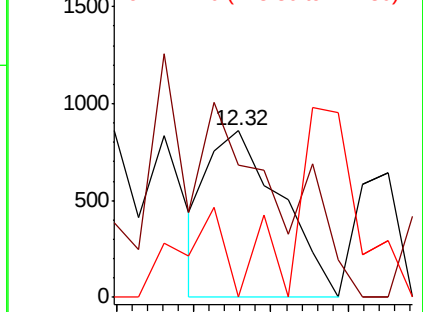
114 0.0 30.3 37.1#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.000 ppbv

RT: 12.88 min Scan# 3094

Delta R.T. 0.00 min

Lab File: VL032689.D

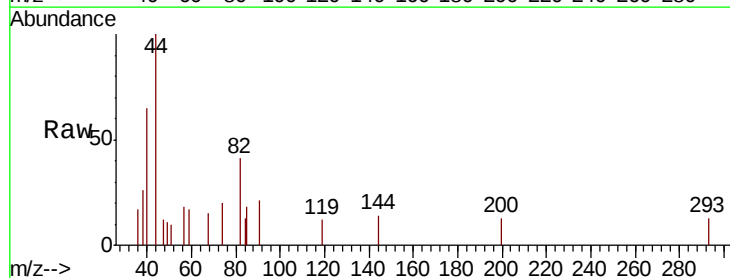
Acq: 24 Oct 2018 16:11

Tgt Ion: 91 Resp: 171

Ion Ratio Lower Upper

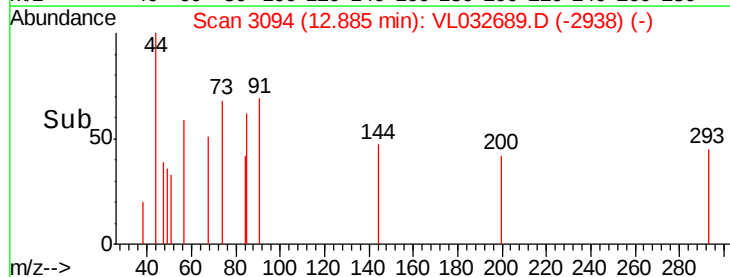
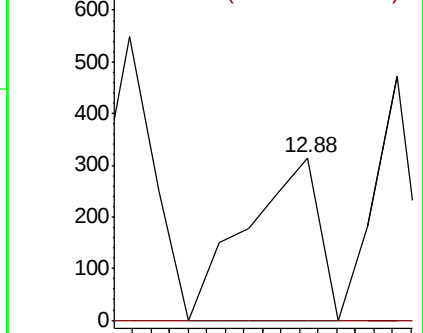
91 100

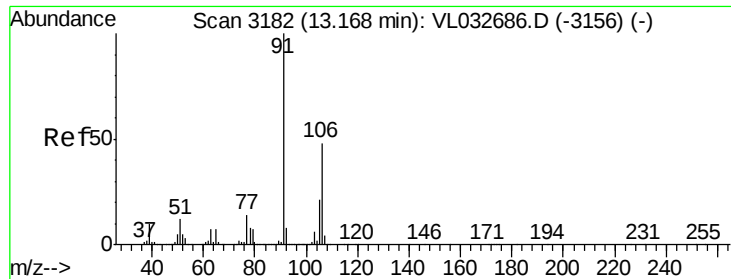
106 0.0 24.2 36.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

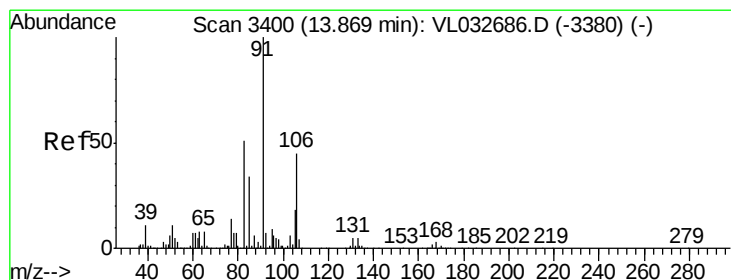
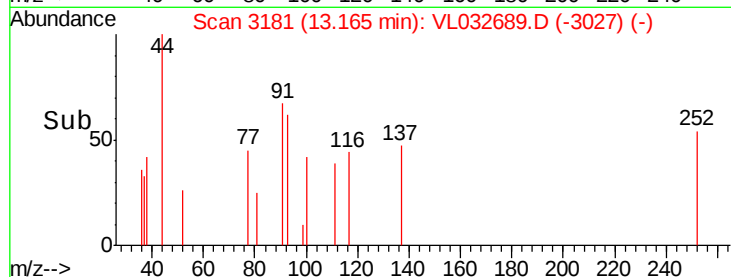
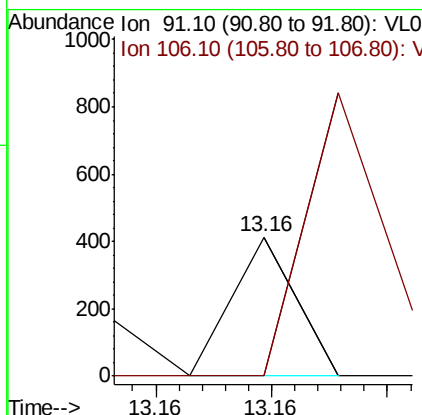
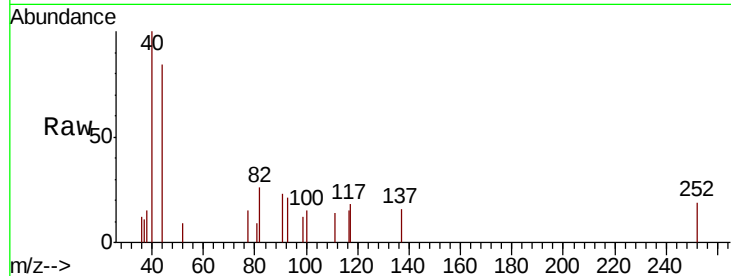




#59
m/p-Xylene
Concen: 0.000 ppbv
RT: 13.16 min Scan# 3181
Delta R.T. -0.00 min
Lab File: VL032689.D
Acq: 24 Oct 2018 16:11

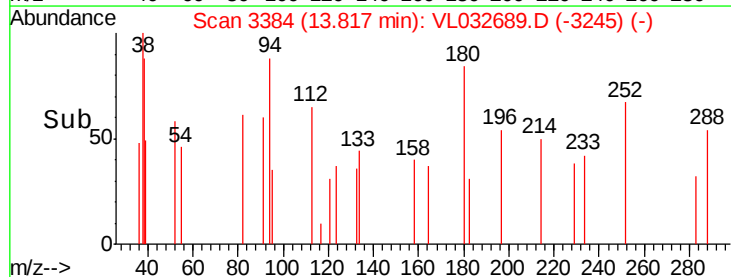
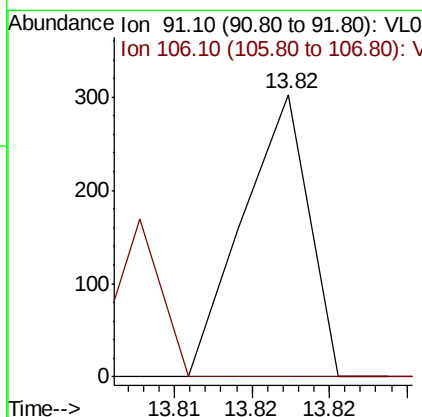
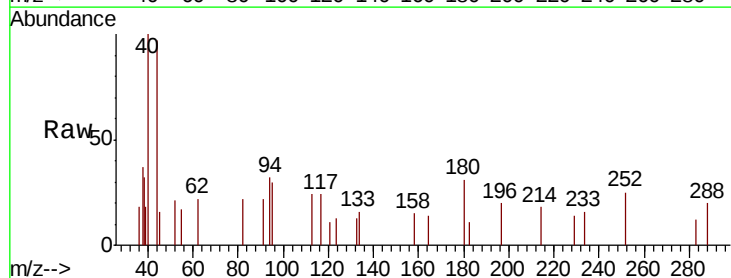
Instrument :
MSVOA_L
ClientSampleId :
QC101818 CAN 10440

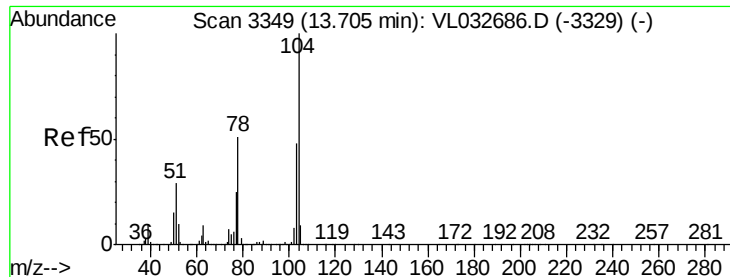
Tgt Ion: 91 Resp: 80
Ion Ratio Lower Upper
91 100
106 0.0 35.9 53.9#



#60
o-Xylene
Concen: 0.000 ppbv
RT: 13.82 min Scan# 3384
Delta R.T. -0.05 min
Lab File: VL032689.D
Acq: 24 Oct 2018 16:11

Tgt Ion: 91 Resp: 89
Ion Ratio Lower Upper
91 100
106 37.1 22.1 66.1





#61

Styrene

Concen: 0.001 ppbv

RT: 13.70 min Scan# 3348

Delta R.T. -0.00 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

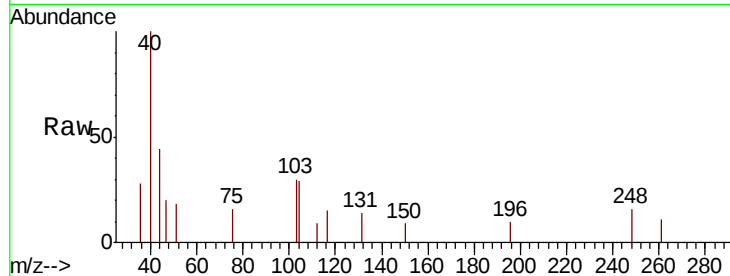
MSVOA_L

ClientSampleId :

QC101818 CAN 10440

Tgt Ion:104 Resp: 286

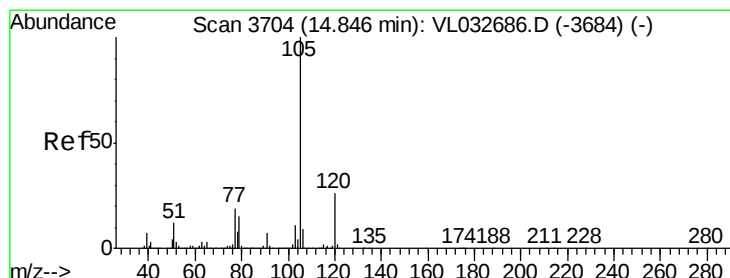
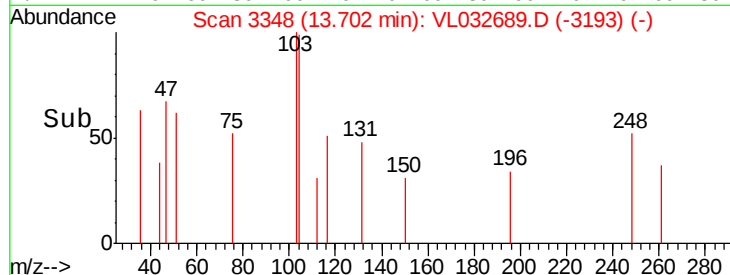
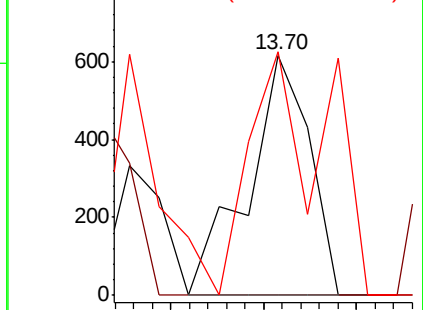
Ion	Ratio	Lower	Upper
104	100		
78	31.1	42.8	64.2#
103	203.5	37.4	56.0#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.001 ppbv

RT: 14.84 min Scan# 3703

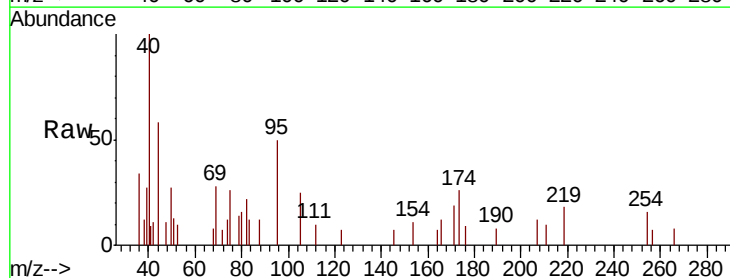
Delta R.T. -0.00 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

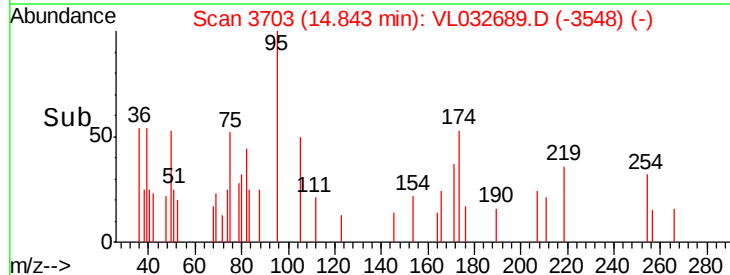
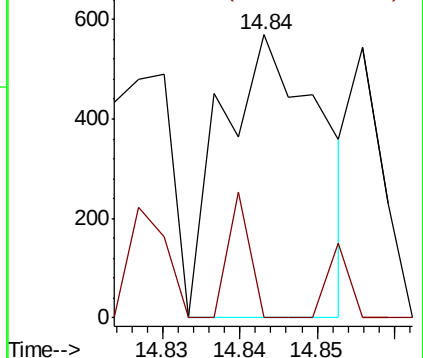
Tgt Ion:105 Resp: 508

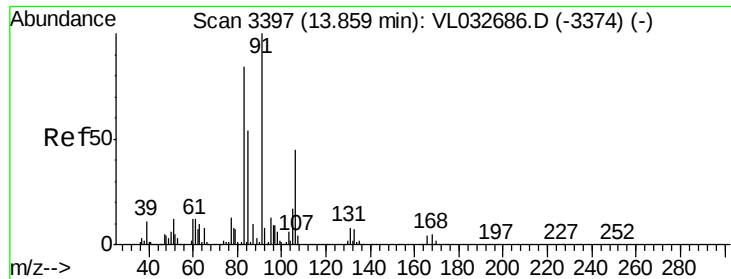
Ion	Ratio	Lower	Upper
105	100		
120	0.0	20.5	30.7#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.001 ppbv

RT: 13.86 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

MSVOA_L

ClientSampleId :

QC101818 CAN 10440

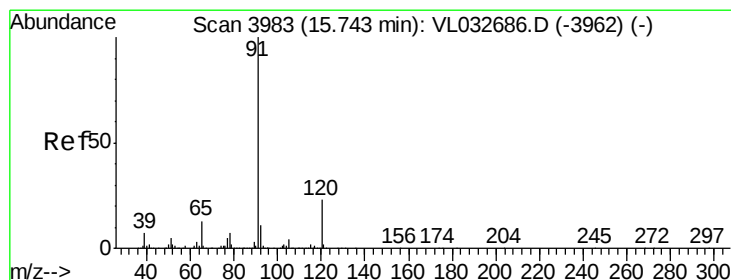
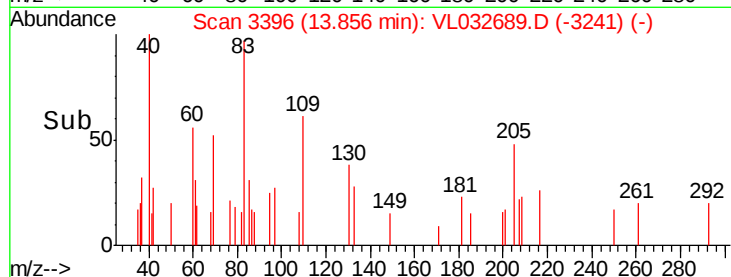
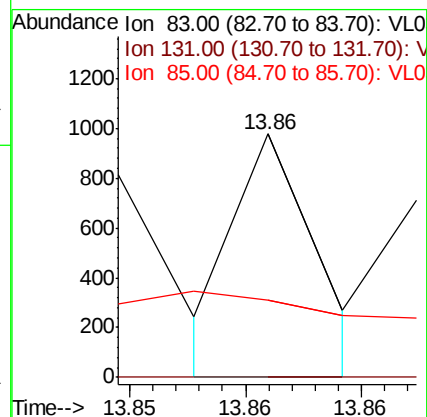
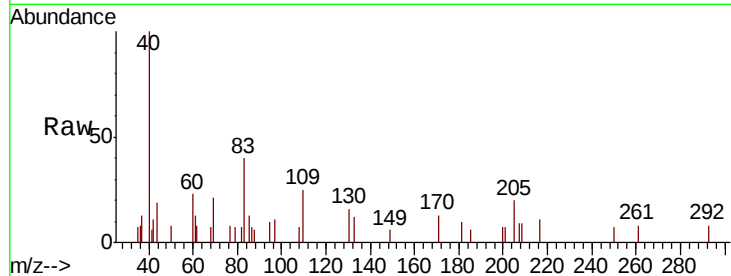
Tgt Ion: 83 Resp: 241

Ion Ratio Lower Upper

83 100

131 0.0 4.3 12.9#

85 0.0 32.3 96.9#



#64

n-propylbenzene

Concen: 0.000 ppbv

RT: 15.64 min Scan# 3952

Delta R.T. -0.10 min

Lab File: VL032689.D

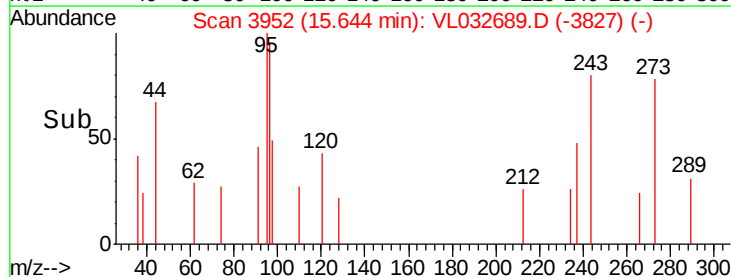
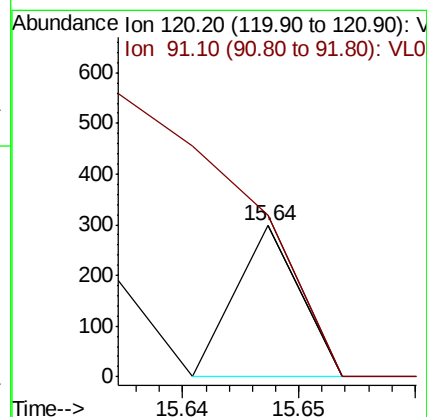
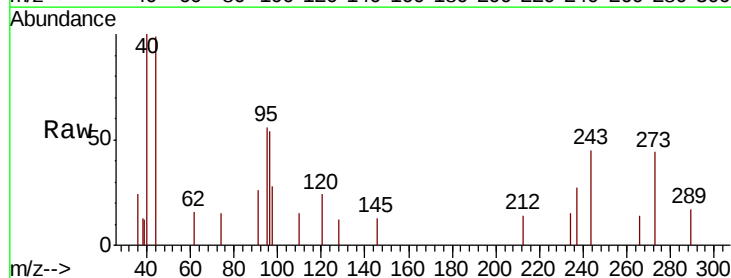
Acq: 24 Oct 2018 16:11

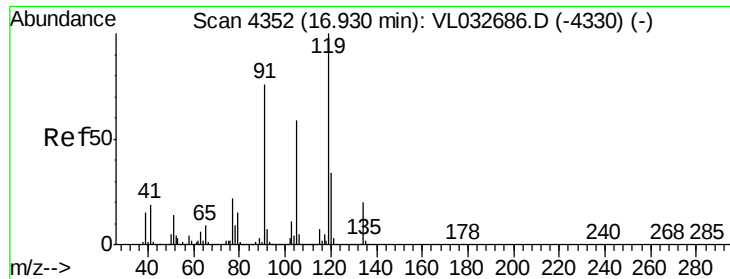
Tgt Ion: 120 Resp: 58

Ion Ratio Lower Upper

120 100

91 391.4 390.2 585.2





#65

tert-Butylbenzene

Concen: 0.000 ppbv

RT: 16.93 min Scan# 4353

Delta R.T. 0.01 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

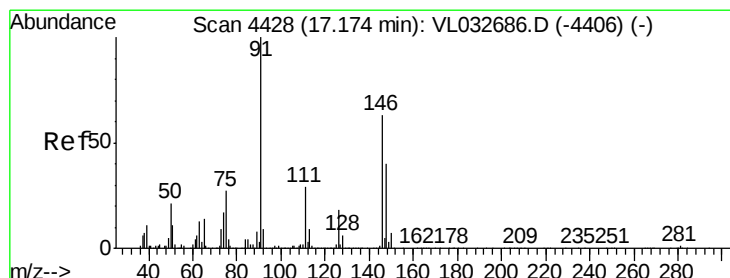
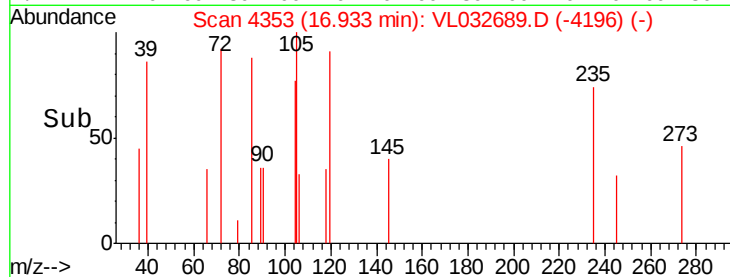
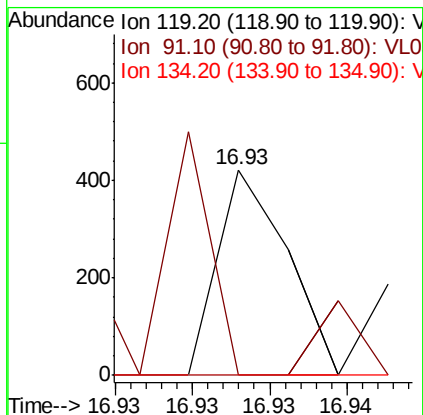
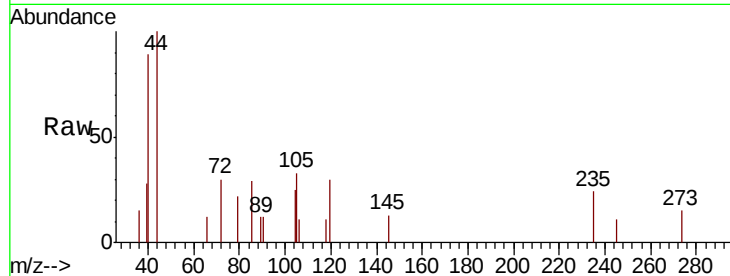
MSVOA_L

ClientSampleId :

QC101818 CAN 10440

Tgt Ion: 119 Resp: 131

Ion	Ratio	Lower	Upper
119	100		
91	283.2	67.8	101.8#
134	0.0	15.8	23.8#



#66

Benzyl Chloride

Concen: 0.002 ppbv

RT: 17.18 min Scan# 4429

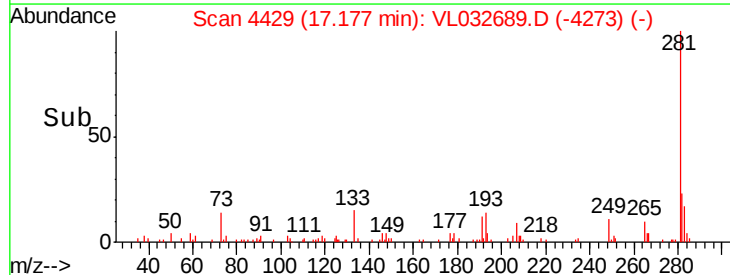
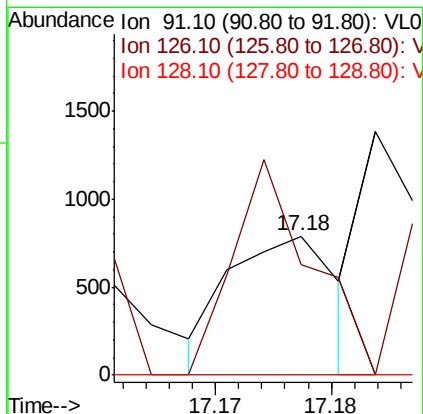
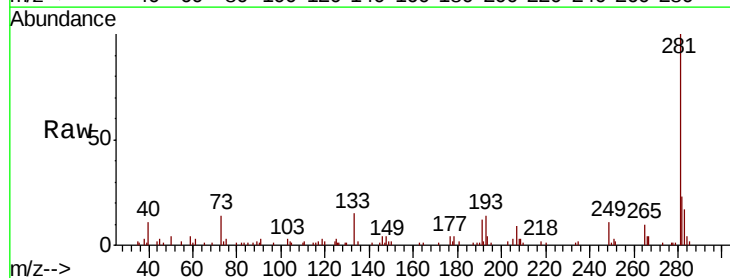
Delta R.T. 0.00 min

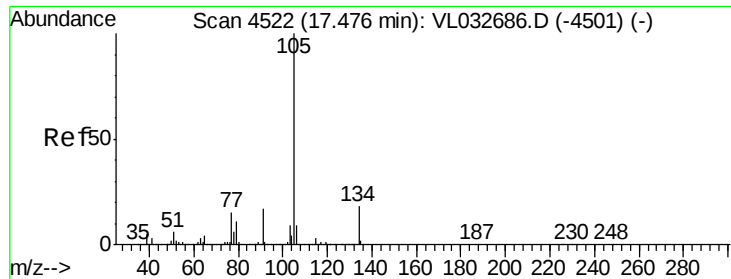
Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Tgt Ion: 91 Resp: 506

Ion	Ratio	Lower	Upper
91	100		
126	255.9	13.9	20.9#
128	0.0	4.3	6.5#

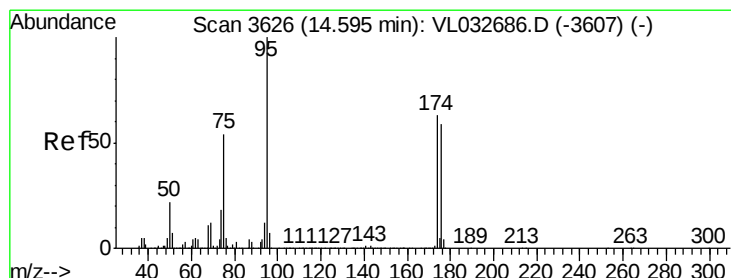
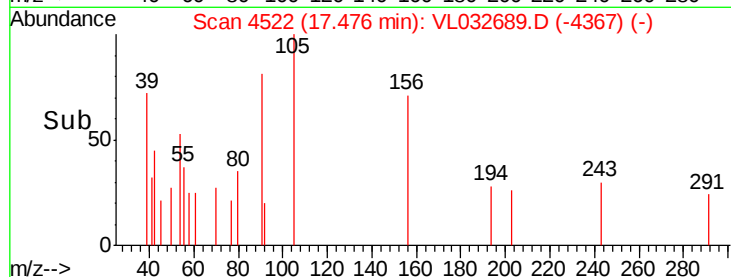
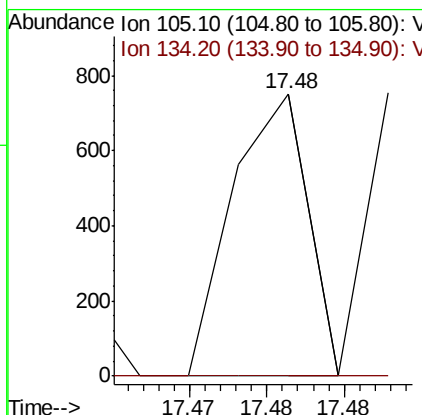
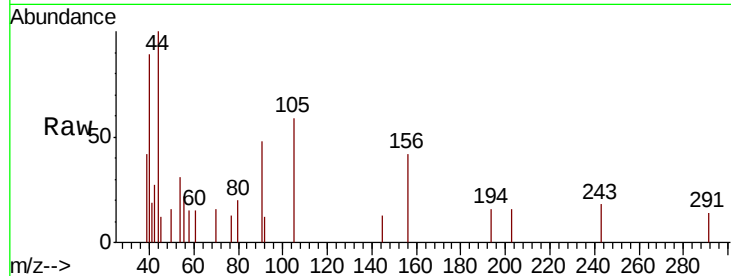




#67
 sec-Butylbenzene
 Concen: 0.000 ppbv
 RT: 17.48 min Scan# 4522
 Delta R.T. -0.00 min
 Lab File: VL032689.D
 Acq: 24 Oct 2018 16:11

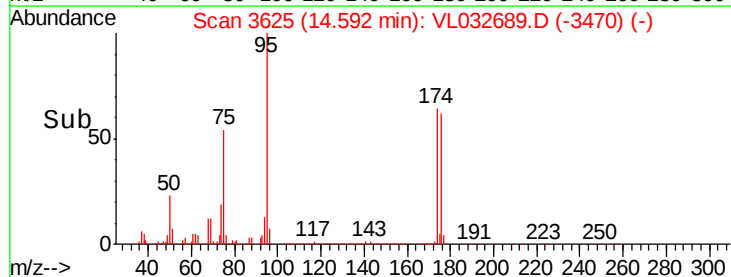
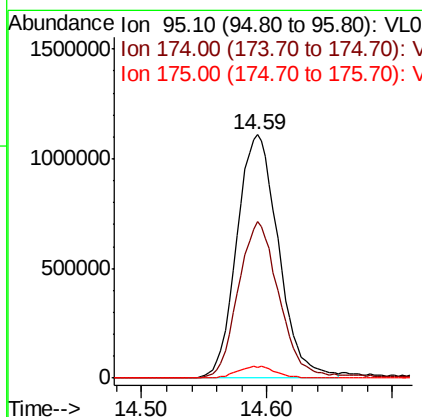
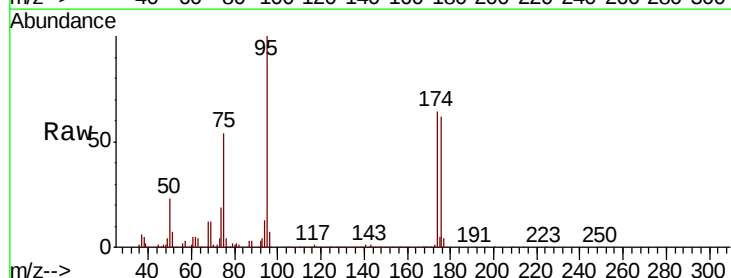
Instrument :
 MSVOA_L
 ClientSampleId :
 QC101818 CAN 10440

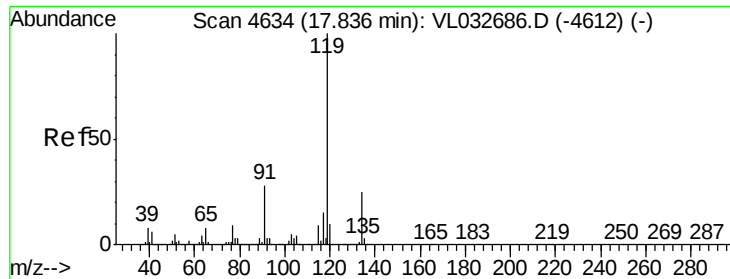
Tgt Ion: 105 Resp: 254
 Ion Ratio Lower Upper
 105 100
 134 0.0 14.2 21.2#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.880 ppbv
 RT: 14.59 min Scan# 3625
 Delta R.T. -0.00 min
 Lab File: VL032689.D
 Acq: 24 Oct 2018 16:11

Tgt Ion: 95 Resp: 2562210
 Ion Ratio Lower Upper
 95 100
 174 64.6 46.0 69.0
 175 4.7 3.4 5.0





#69

p-Isopropyltoluene

Concen: 0.000 ppbv

RT: 17.83 min Scan# 4632

Delta R.T. -0.00 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

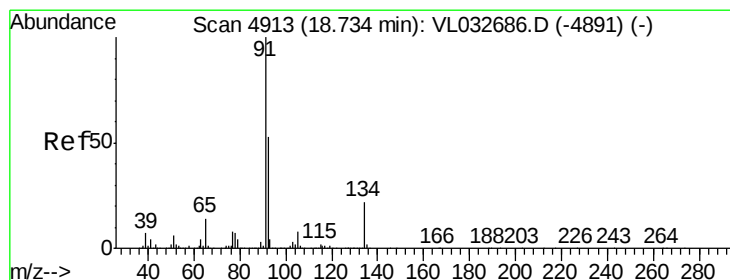
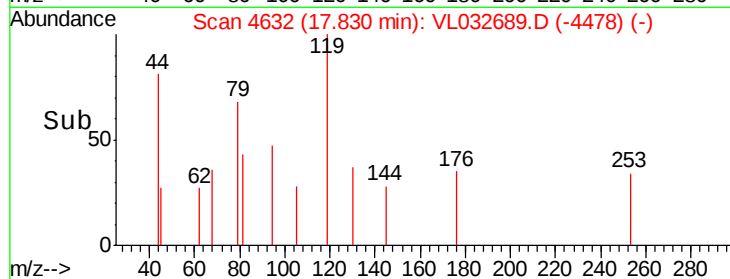
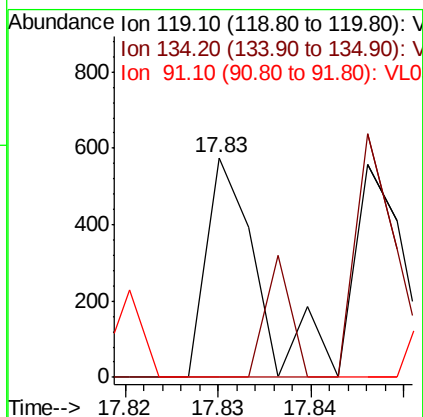
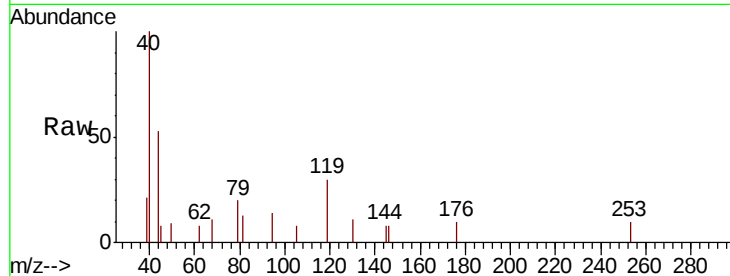
Instrument :

MSVOA_L

ClientSampleId :

QC101818 CAN 10440

Tgt Ion:	119	Resp:	223
Ion Ratio	Lower	Upper	
119	100		
134	0.0	20.2	30.2#
91	0.0	24.0	36.0#



#70

n-Butylbenzene

Concen: 0.001 ppbv

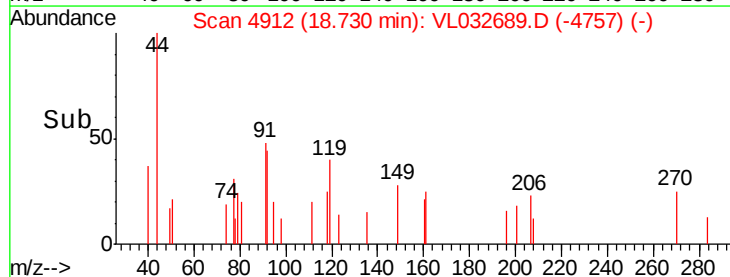
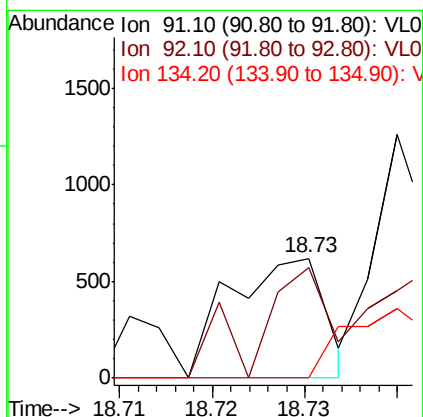
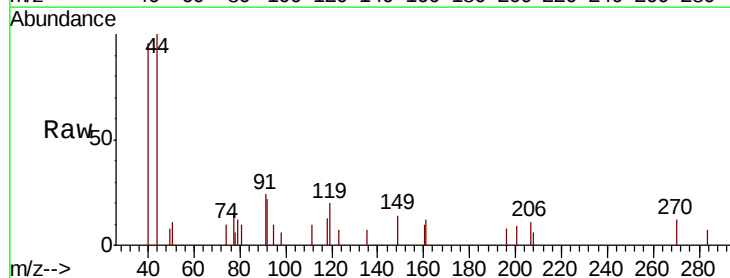
RT: 18.73 min Scan# 4912

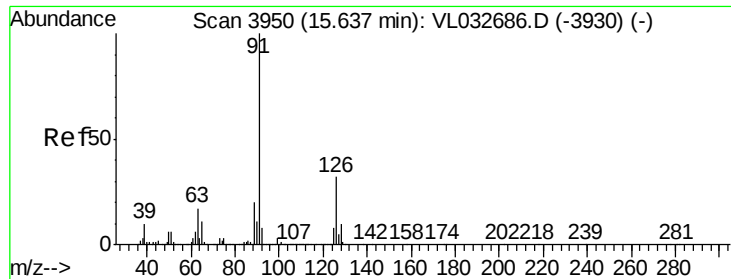
Delta R.T. -0.00 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Tgt Ion:	91	Resp:	438
Ion Ratio	Lower	Upper	
91	100		
92	163.7	43.0	64.4#
134	0.0	17.0	25.6#

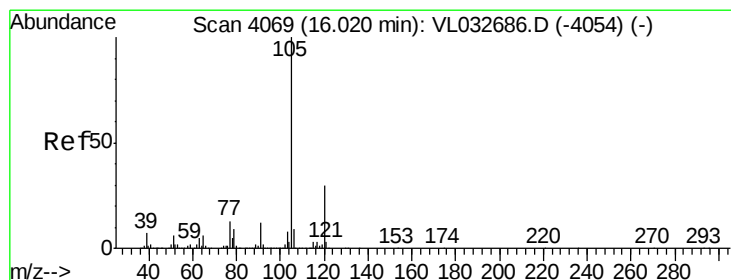
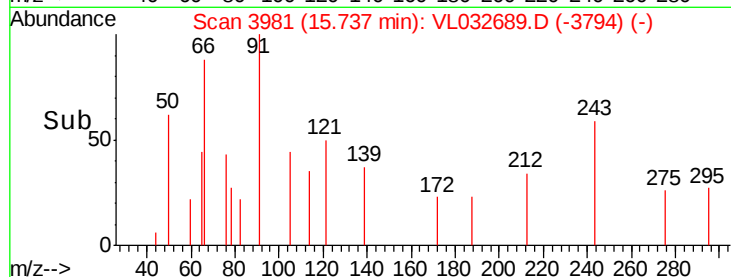
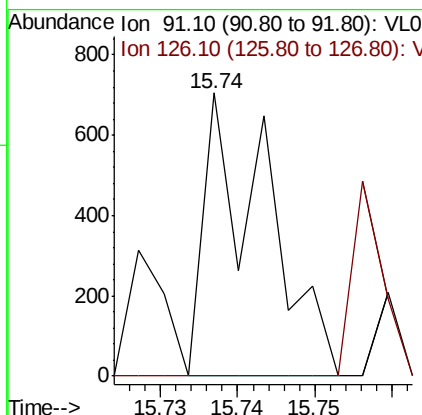
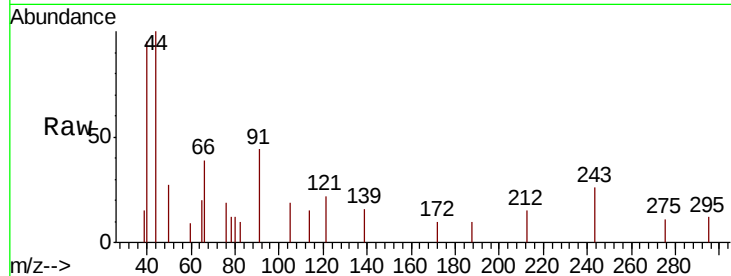




#71
 2-Chlorotoluene
 Concen: 0.001 ppbv
 RT: 15.74 min Scan# 3981
 Delta R.T. 0.10 min
 Lab File: VL032689.D
 Acq: 24 Oct 2018 16:11

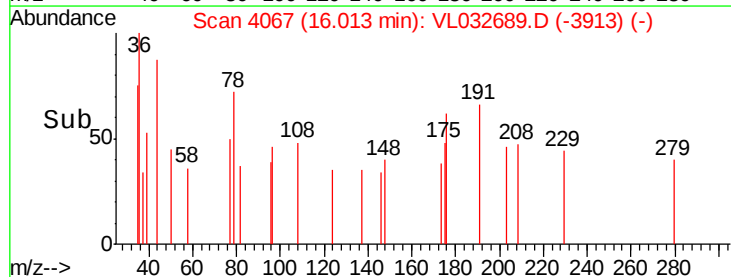
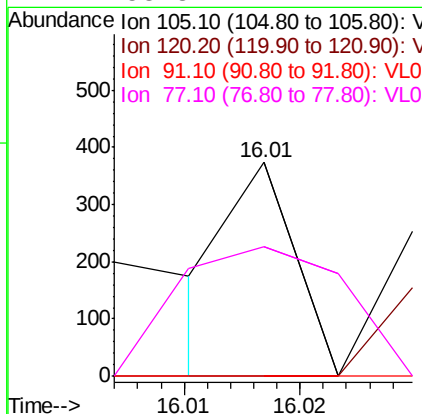
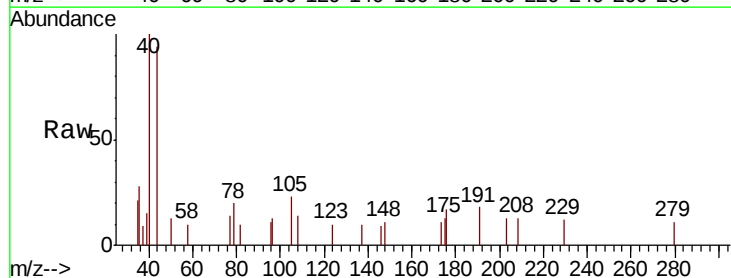
Instrument :
 MSVOA_L
 ClientSampleId :
 QC101818 CAN 10440

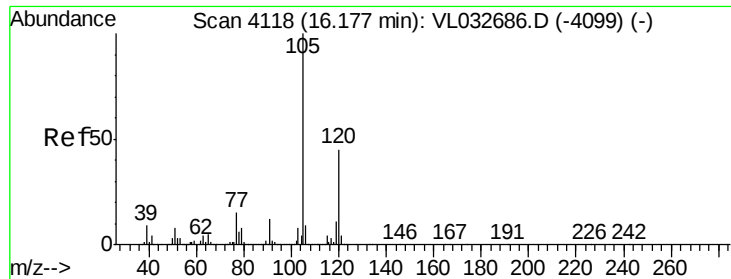
Tgt Ion: 91 Resp: 387
 Ion Ratio Lower Upper
 91 100
 126 33.9 11.8 47.4



#72
 4-Ethyltoluene
 Concen: 0.000 ppbv
 RT: 16.01 min Scan# 4067
 Delta R.T. -0.00 min
 Lab File: VL032689.D
 Acq: 24 Oct 2018 16:11

Tgt Ion: 105 Resp: 72
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.7 35.5#
 91 0.0 10.4 15.6#
 77 158.3 11.4 17.2#

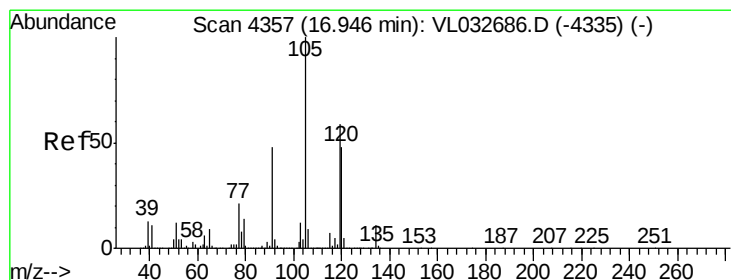
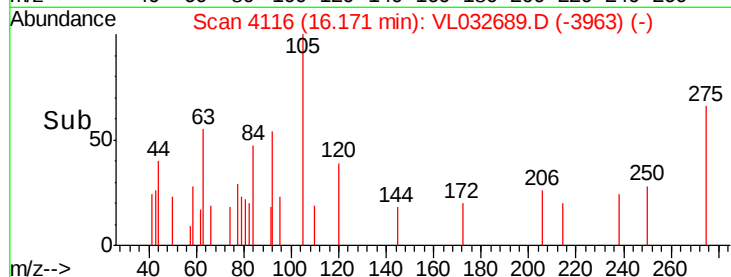
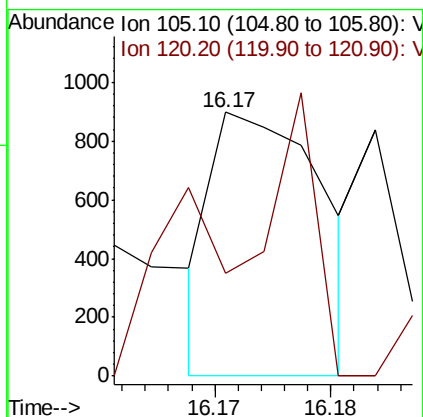
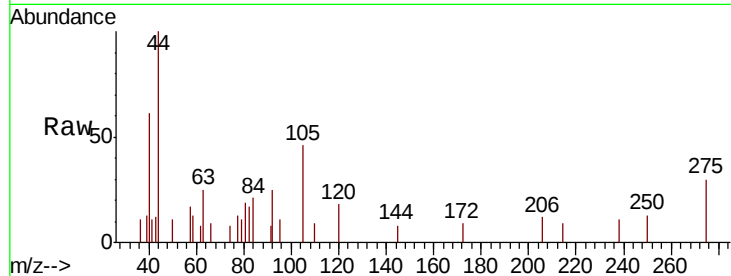




#73
 1,3,5-Trimethylbenzene
 Concen: 0.002 ppbv
 RT: 16.17 min Scan# 4116
 Delta R.T. -0.01 min
 Lab File: VL032689.D
 Acq: 24 Oct 2018 16:11

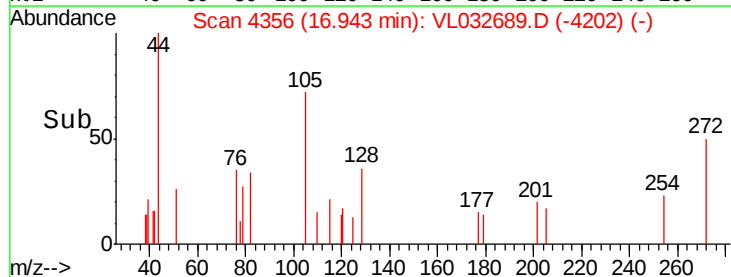
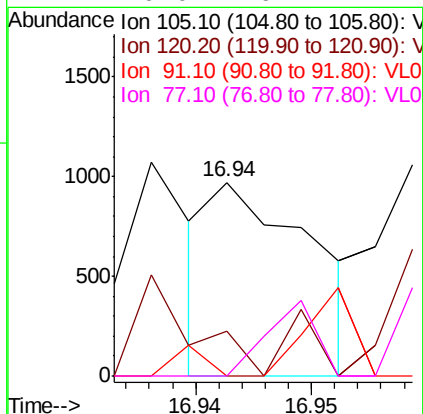
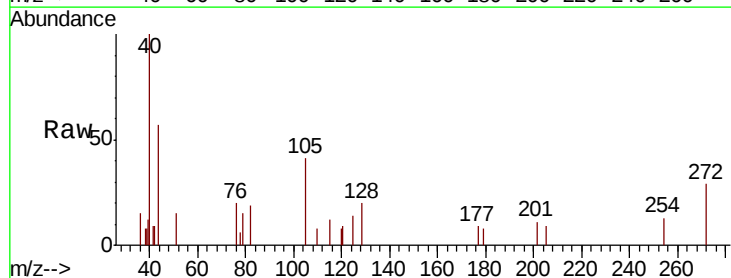
Instrument :
 MSVOA_L
 ClientSampleId :
 QC101818 CAN 10440

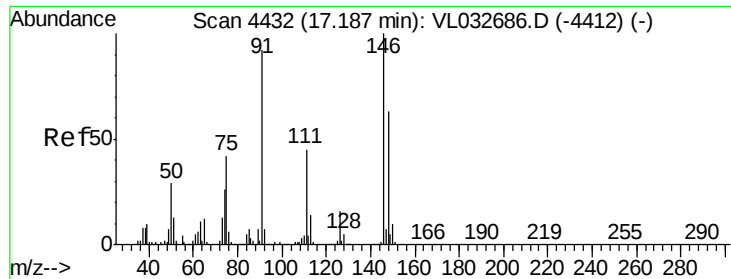
Tgt Ion:105 Resp: 595
 Ion Ratio Lower Upper
 105 100
 120 66.5 35.4 53.2#



#74
 1,2,4-Trimethylbenzene
 Concen: 0.002 ppbv
 RT: 16.94 min Scan# 4356
 Delta R.T. -0.00 min
 Lab File: VL032689.D
 Acq: 24 Oct 2018 16:11

Tgt Ion:105 Resp: 589
 Ion Ratio Lower Upper
 105 100
 120 57.7 35.8 53.8#
 91 0.0 33.2 49.8#
 77 0.0 16.2 24.4#

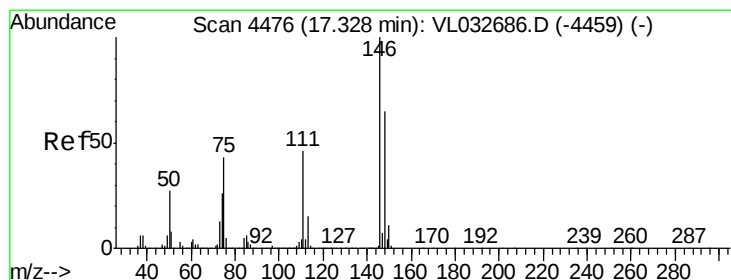
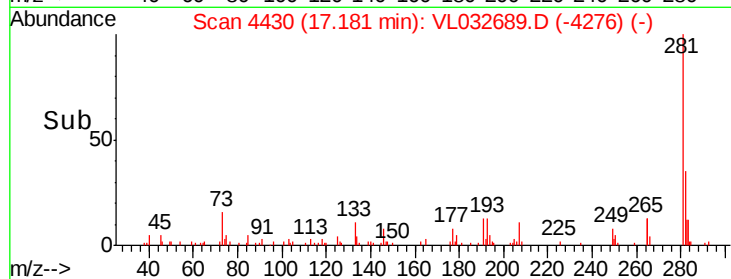
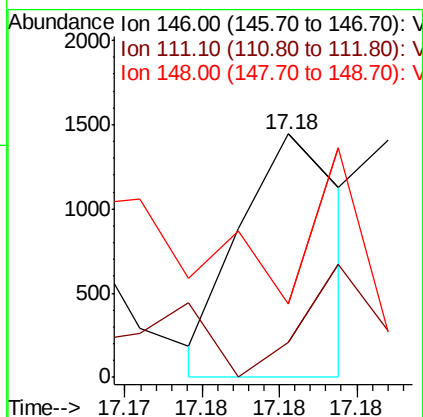
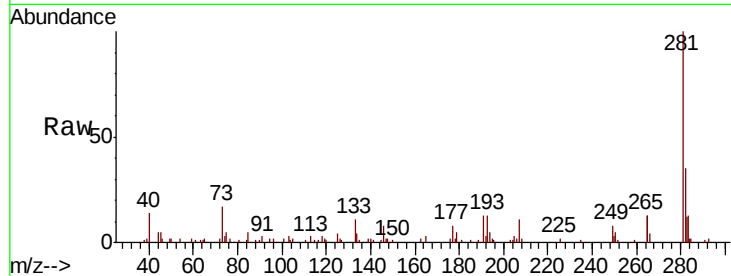




#75
 1,3-Dichlorobenzene
 Concen: 0.003 ppbv
 RT: 17.18 min Scan# 4430
 Delta R.T. -0.00 min
 Lab File: VL032689.D
 Acq: 24 Oct 2018 16:11

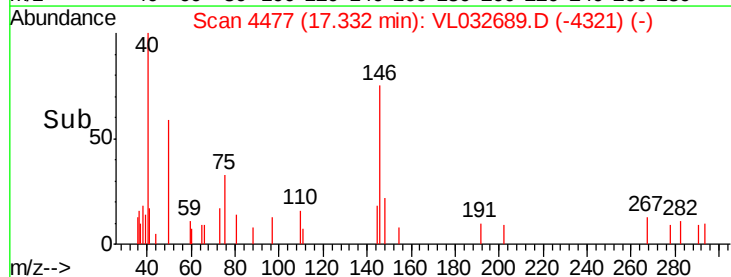
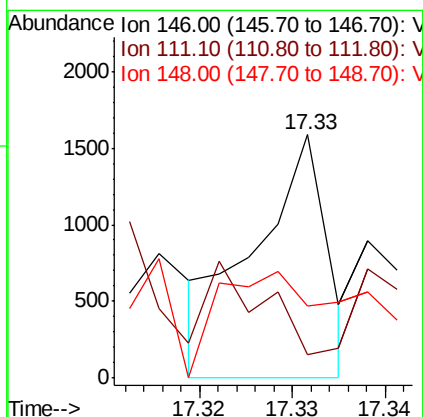
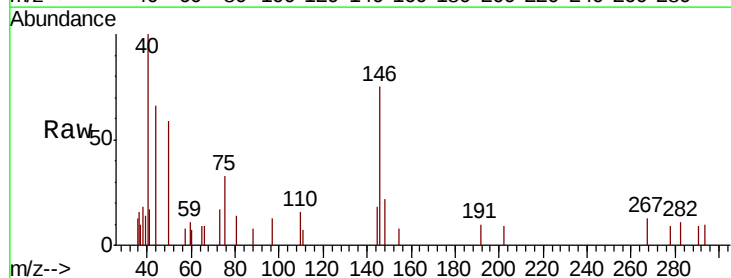
Instrument :
 MSVOA_L
 ClientSampleId :
 QC101818 CAN 10440

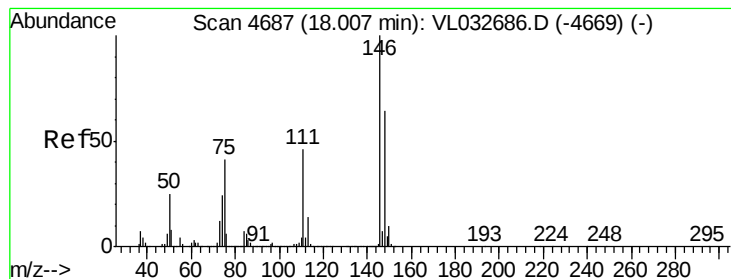
Tgt Ion:146 Resp: 667
 Ion Ratio Lower Upper
 146 100
 111 0.0 24.4 73.2#
 148 445.9 31.9 95.9#



#76
 1,4-Dichlorobenzene
 Concen: 0.004 ppbv
 RT: 17.33 min Scan# 4477
 Delta R.T. 0.00 min
 Lab File: VL032689.D
 Acq: 24 Oct 2018 16:11

Tgt Ion:146 Resp: 875
 Ion Ratio Lower Upper
 146 100
 111 0.0 23.7 71.1#
 148 0.0 32.1 96.3#





#77

1,2-Dichlorobenzene

Concen: 0.001 ppbv

RT: 17.75 min Scan# 4606

Delta R.T. -0.26 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

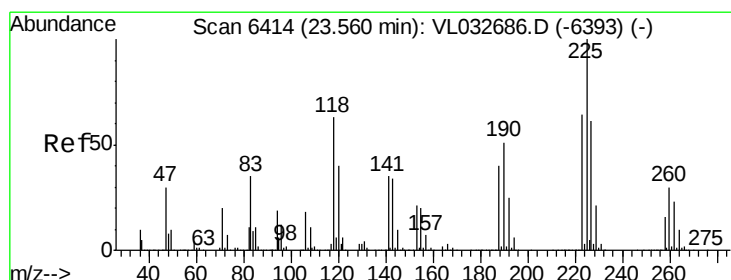
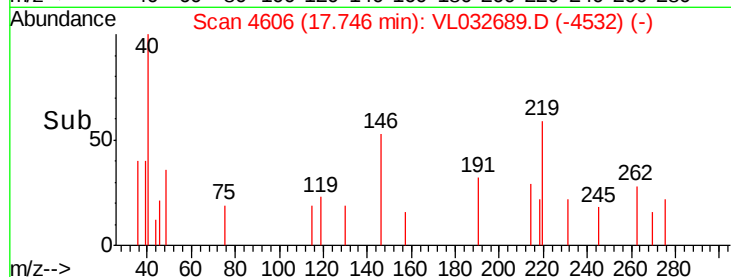
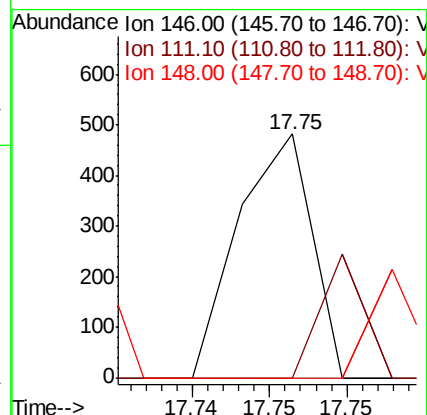
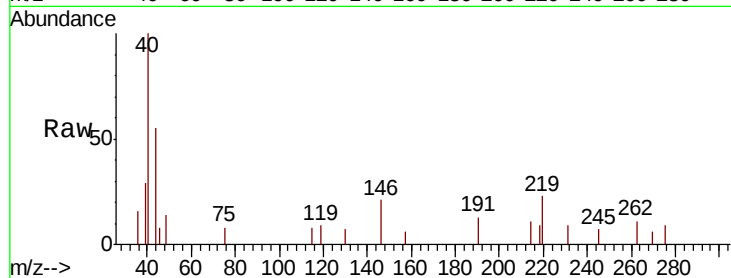
Instrument :

MSVOA_L

ClientSampleId :

QC101818 CAN 10440

Tgt Ion:	146	Resp:	159
Ion	Ratio	Lower	Upper
146	100		
111	52.8	25.3	75.8
148	95.6	31.9	95.9



#78

Hexachloro-1,3-Butadiene

Concen: 0.006 ppbv

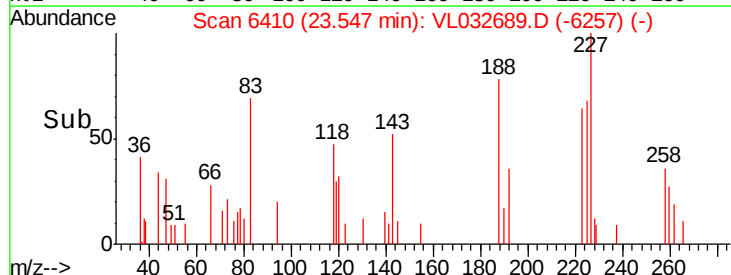
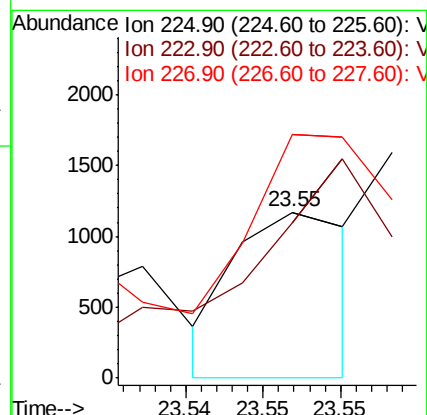
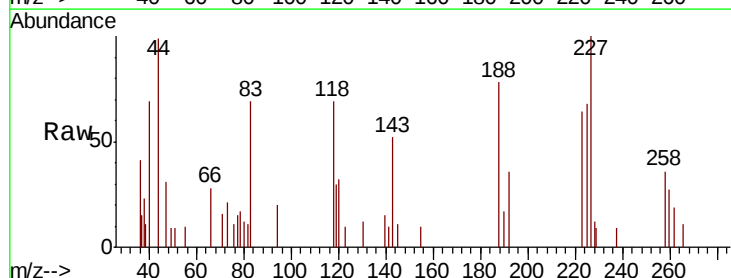
RT: 23.55 min Scan# 6410

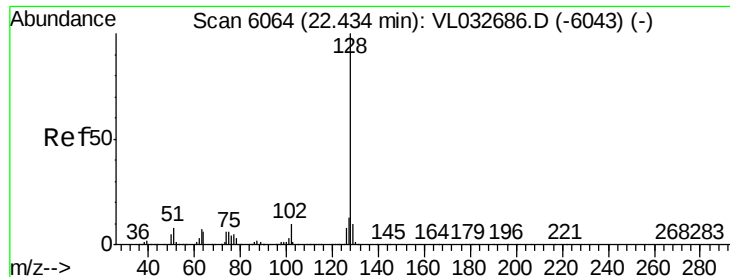
Delta R.T. -0.01 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Tgt Ion:	225	Resp:	617
Ion	Ratio	Lower	Upper
225	100		
223	0.0	50.7	76.1#
227	543.6	50.7	76.1#





#79

Naphthalene

Concen: 0.002 ppbv

RT: 22.42 min Scan# 6059

Delta R.T. -0.02 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

Instrument :

MSVOA_L

ClientSampleId :

QC101818 CAN 10440

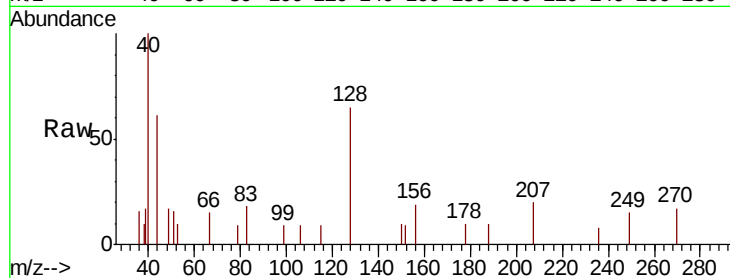
Tgt Ion:128 Resp: 398

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

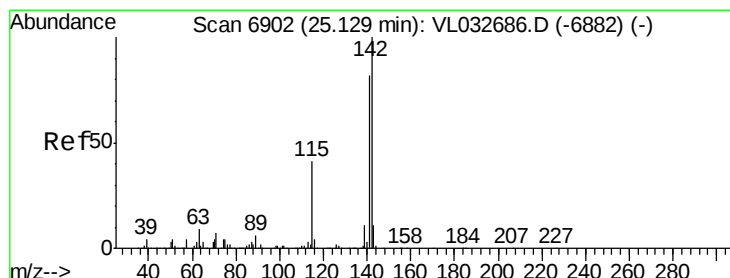
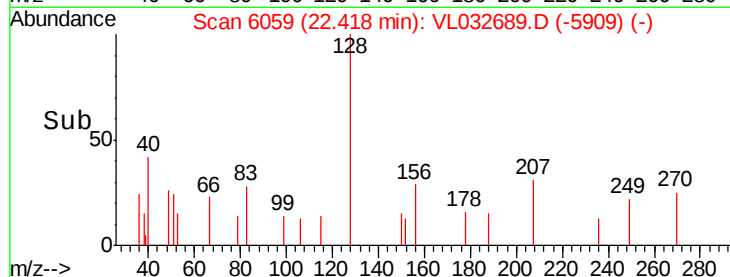
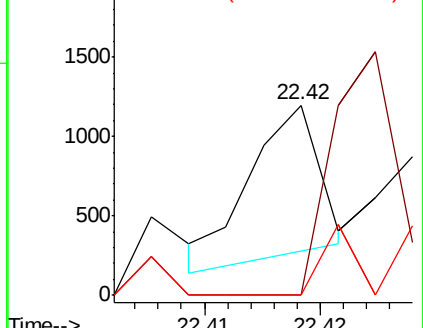
129 0.0 8.6 13.0#



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.048 ppbv

RT: 25.14 min Scan# 6905

Delta R.T. 0.01 min

Lab File: VL032689.D

Acq: 24 Oct 2018 16:11

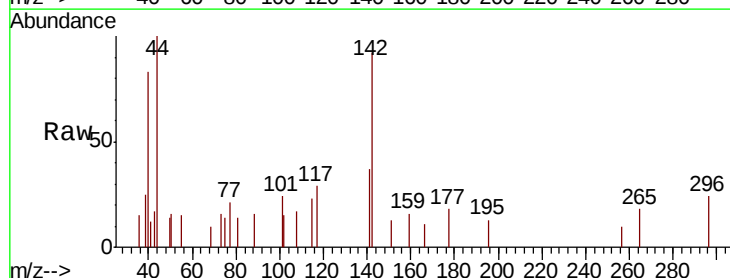
Tgt Ion:142 Resp: 2781

Ion Ratio Lower Upper

142 100

141 93.9 67.5 101.3

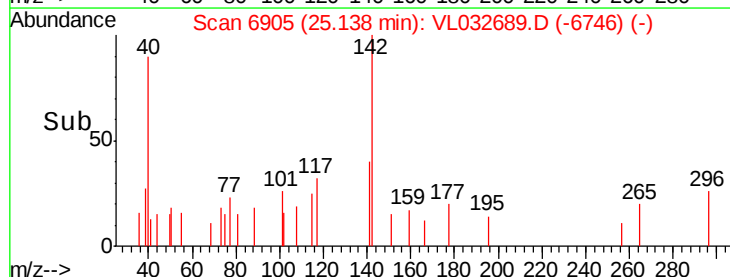
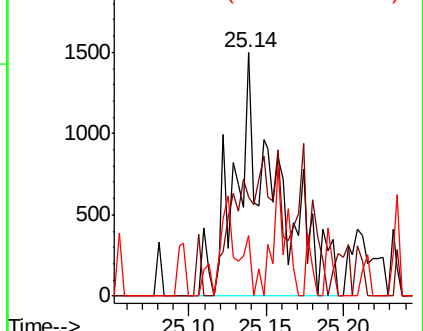
115 48.7 33.5 50.3

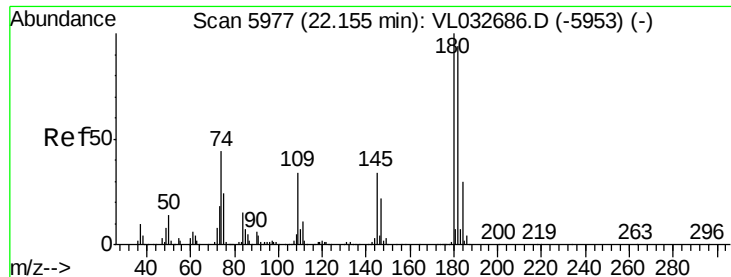


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.004 ppbv
 RT: 22.15 min Scan# 5975
 Delta R.T. -0.01 min
 Lab File: VL032689.D
 Acq: 24 Oct 2018 16:11

Instrument :
 MSVOA_L
 ClientSampleId :
 QC101818 CAN 10440

Tgt Ion:180 Resp: 528
 Ion Ratio Lower Upper
 180 100
 182 0.0 76.5 114.7#
 184 0.0 24.7 37.1#

