

Data File : VL034090.D
Acq On : 5 Aug 2019 15:16
Operator : SY/AP
Sample : VSTDIC0.1
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Quant Time: Aug 05 15:57:17 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL080519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 13:52:58 2019
QLast Update : Mon Aug 05 13:52:58 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1204758	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2397955	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2451170	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2060136	9.51	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.10%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.05	85	22370	0.097	ppbv	99
3) Chlorodifluoromethane	2.99	51	15699	0.111	ppbv	93
4) Chloromethane	3.14	50	3857	0.047	ppbv #	88
5) Vinyl Chloride	3.26	62	4124	0.051	ppbv #	50
6) Bromomethane	3.48	94	1342	0.022	ppbv #	61
7) Chloroethane	3.56	64	895	0.023	ppbv #	77
8) Dichlorotetrafluoroethane	3.19	85	17380	0.077	ppbv	95
9) Propene	3.01	41	10999	0.201	ppbv	95
10) Heptane	8.18	43	10942	0.072	ppbv #	30
11) Trichlorofluoromethane	3.99	101	427	0.002	ppbv	86
12) 1,1,2-Trichlorotrifluoroet	4.51	101	10351	0.059	ppbv	94
13) Ethanol	3.62	45	195	0.009	ppbv #	38
14) Bromoethene	3.75	108	5130	0.052	ppbv #	9
15) Acetone	3.85	43	461	0.002	ppbv #	49
16) 1,3-Butadiene	3.34	39	8979	0.124	ppbv	91
17) tert-Butyl alcohol	4.31	59	252	0.002	ppbv #	72
18) 1,1-Dichloroethene	4.31	96	2318	0.030	ppbv #	13
19) Isopropyl Alcohol	3.98	45	133	0.001	ppbv #	44
20) Methylene Chloride	4.37	84	6803	0.095	ppbv #	75
21) Allyl Chloride	4.43	41	2755	0.023	ppbv #	21
22) trans-1,2-Dichloroethene	4.92	96	2302	0.029	ppbv	83
23) Vinyl Acetate	5.12	43	24928	0.122	ppbv #	88
24) 1,1-Dichloroethane	5.05	63	14772	0.086	ppbv #	90
25) Ethyl Acetate	5.74	43	35906	0.122	ppbv	96
26) Hexane	5.73	57	9370	0.071	ppbv #	7
27) Carbon Disulfide	4.58	76	12291	0.062	ppbv #	35
28) Methyl tert-Butyl Ether	5.09	73	15648	0.079	ppbv #	56
29) Chloroform	5.80	83	8424	0.036	ppbv #	64
30) Cyclohexane	7.19	84	5855	0.055	ppbv #	1
31) cis-1,2-Dichloroethene	5.59	61	13416	0.103	ppbv	92
32) 1,1,1-Trichloroethane	6.57	97	8391	0.034	ppbv #	10
34) 2-Butanone	5.30	43	9572	0.070	ppbv #	56
35) Carbon Tetrachloride	7.08	117	17736	0.092	ppbv	95
36) Benzene	6.95	78	13932	0.061	ppbv #	90
37) 1,2-Dichloroethane	6.36	62	15276	0.102	ppbv #	89
38) Trichloroethene	7.90	130	4688	0.061	ppbv #	51
39) 1,2-Dichloropropane	7.68	63	11942	0.144	ppbv #	77
40) 1,4-Dioxane	7.93	88	121	0.004	ppbv #	1
41) Tetrahydrofuran	6.09	42	327	0.004	ppbv #	41
42) Bromodichloromethane	7.86	83	17439	0.093	ppbv	90
43) Methyl Methacrylate	8.08	69	3596	0.046	ppbv #	1

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Instrument :

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL080519AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 13:52:58 2019

QLast Update : Mon Aug 05 13:52:58 2019

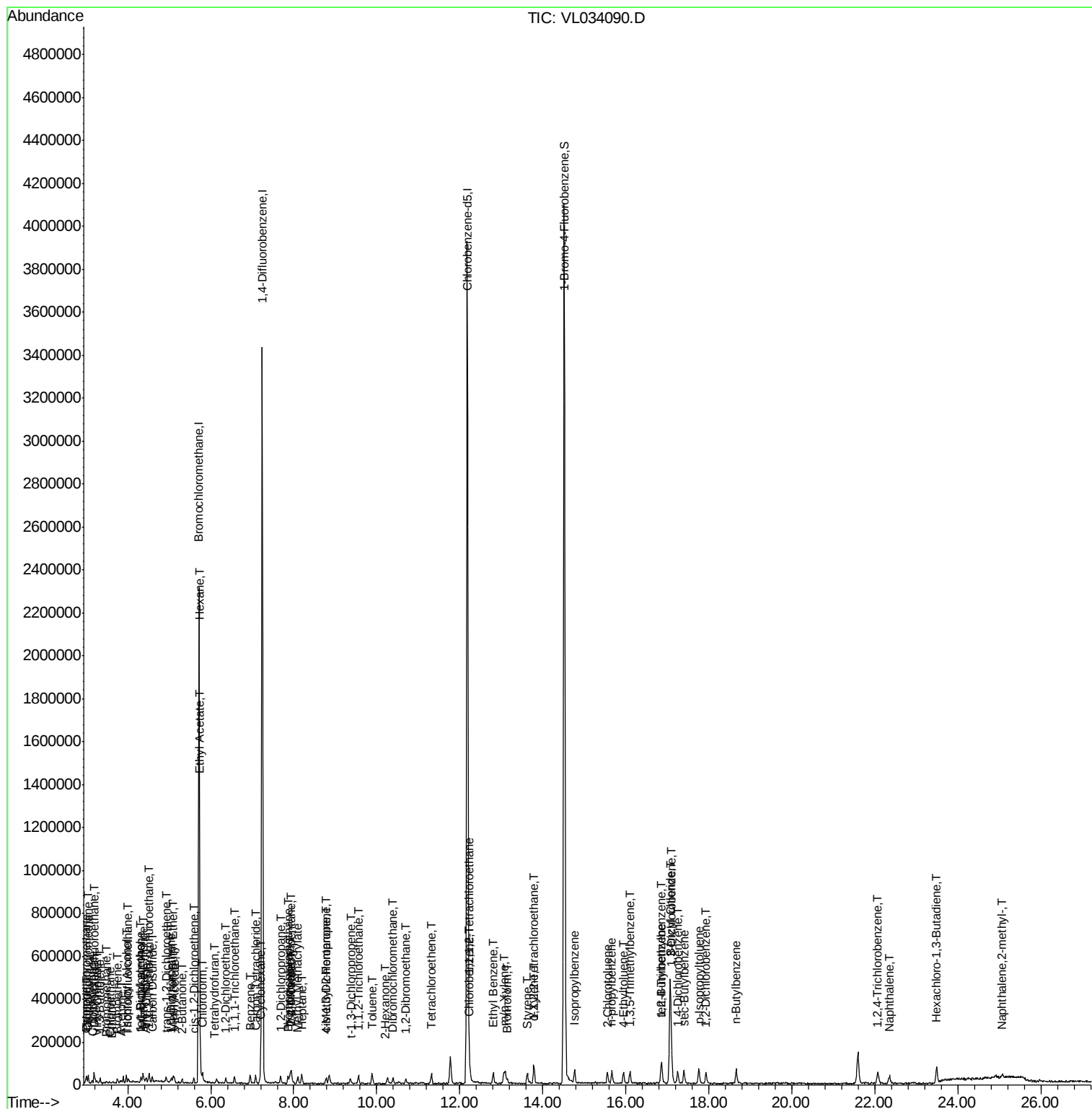
Response via : Initial Calibration

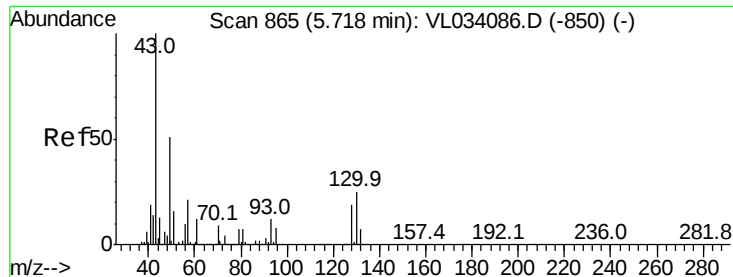
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	34244	0.100	ppbv	# 55
45) t-1,3-Dichloropropene	9.40	75	211	0.002	ppbv	95
46) cis-1,3-Dichloropropene	8.77	75	5505	0.049	ppbv	# 43
47) 1,1,2-Trichloroethane	9.56	97	7939	0.089	ppbv	# 80
48) Dibromochloromethane	10.39	129	3705	0.025	ppbv	# 10
49) Bromoform	13.14	173	5825	0.045	ppbv	# 24
50) 4-Methyl-2-Pentanone	8.80	43	215	0.001	ppbv	# 40
51) 2-Hexanone	10.19	43	387	0.002	ppbv	# 29
52) Tetrachloroethene	11.32	164	4347	0.065	ppbv	# 47
53) Toluene	9.89	91	32894	0.145	ppbv	99
54) 1,2-Dibromoethane	10.70	107	7358	0.056	ppbv	82
56) 1,1,1,2-Tetrachloroethane	12.23	131	2140	0.020	ppbv	# 1
57) Chlorobenzene	12.25	112	9471	0.047	ppbv	# 68
58) Ethyl Benzene	12.81	91	16945	0.052	ppbv	91
59) m/p-Xylene	13.09	91	26243	0.091	ppbv	# 1
60) o-Xylene	13.79	91	17135	0.059	ppbv	# 18
61) Styrene	13.62	104	26053	0.137	ppbv	97
62) Isopropylbenzene	14.77	105	45623	0.120	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.77	83	13805	0.060	ppbv	# 33
64) n-propylbenzene	15.66	120	11601	0.120	ppbv	77
65) tert-Butylbenzene	16.85	119	21033	0.061	ppbv	# 16
66) Benzyl Chloride	17.09	91	3676	0.022	ppbv	# 64
67) sec-Butylbenzene	17.40	105	7576	0.015	ppbv	# 1
69) p-Isopropyltoluene	17.76	119	23781	0.060	ppbv	# 37
70) n-Butylbenzene	18.65	91	26895	0.062	ppbv	# 30
71) 2-Chlorotoluene	15.56	91	32961	0.117	ppbv	86
72) 4-Ethyltoluene	15.93	105	17842	0.055	ppbv	# 55
73) 1,3,5-Trimethylbenzene	16.10	105	27141	0.085	ppbv	# 83
74) 1,2,4-Trimethylbenzene	16.86	105	24433	0.069	ppbv	# 75
75) 1,3-Dichlorobenzene	17.10	146	6392	0.030	ppbv	# 23
76) 1,4-Dichlorobenzene	17.25	146	7315	0.037	ppbv	# 1
77) 1,2-Dichlorobenzene	17.92	146	10668	0.054	ppbv	# 23
78) Hexachloro-1,3-Butadiene	23.48	225	19456	0.108	ppbv	96
79) Naphthalene	22.34	128	14016	0.044	ppbv	# 81
80) Naphthalene,2-methyl-	25.07	142	10406	0.085	ppbv	93
81) 1,2,4-Trichlorobenzene	22.06	180	3102	0.016	ppbv	# 1

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 864

Delta R.T. -0.00 min

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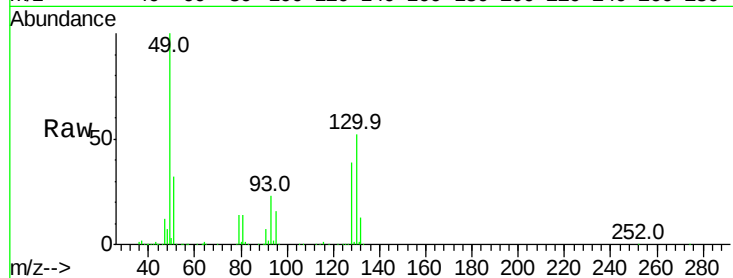
Tgt Ion: 49 Resp: 1204758

Ion Ratio Lower Upper

49 100

128 39.7 19.5 58.5

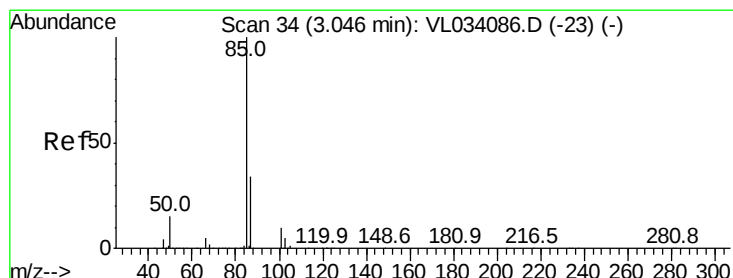
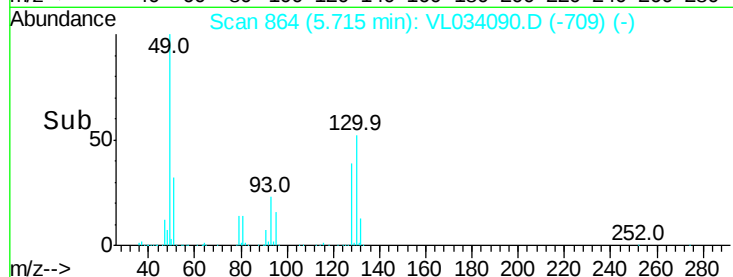
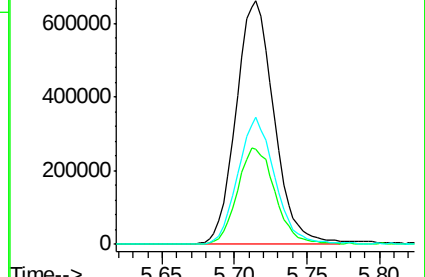
130 51.2 25.4 76.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.097 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL034090.D

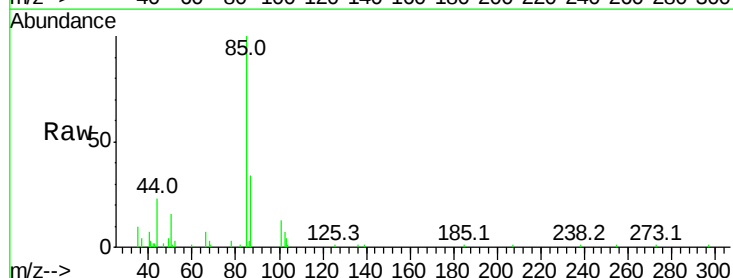
Acq: 5 Aug 2019 15:16

Tgt Ion: 85 Resp: 22370

Ion Ratio Lower Upper

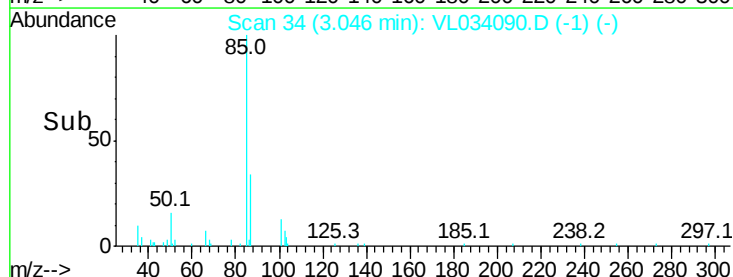
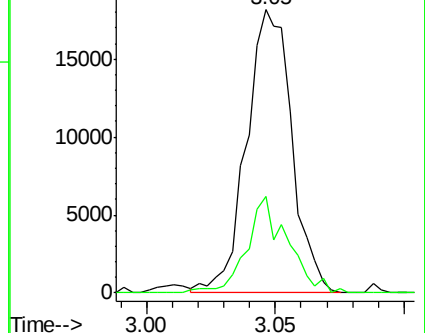
85 100

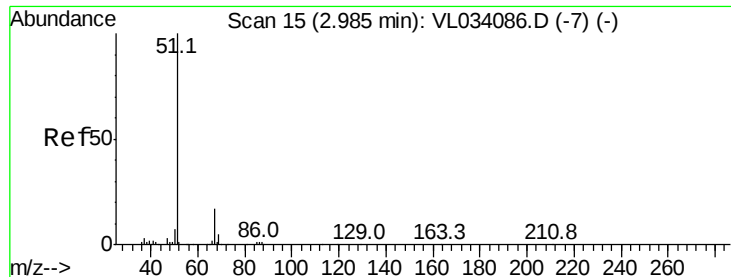
87 33.1 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.111 ppbv

RT: 2.99 min Scan# 16

Delta R.T. 0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

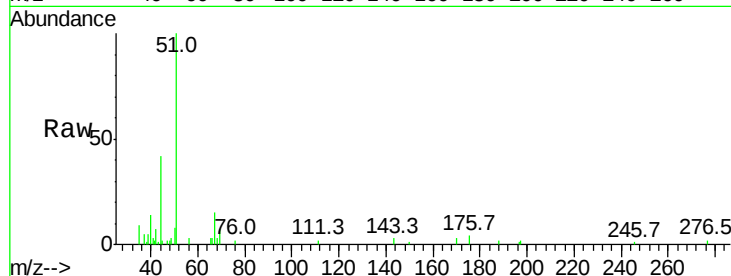
VSTDIC0.1

Tgt Ion: 51 Resp: 15699

Ion Ratio Lower Upper

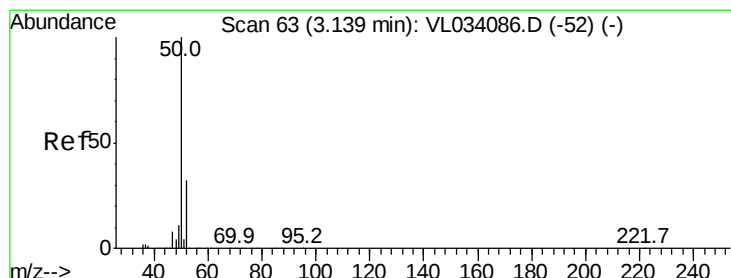
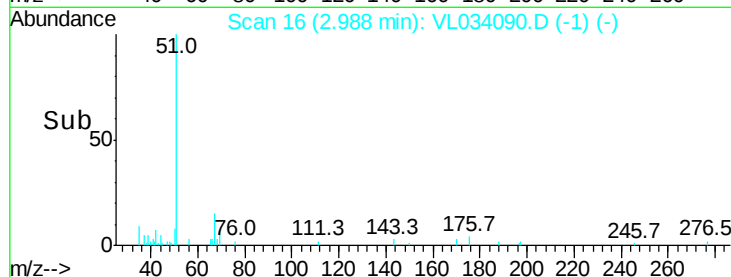
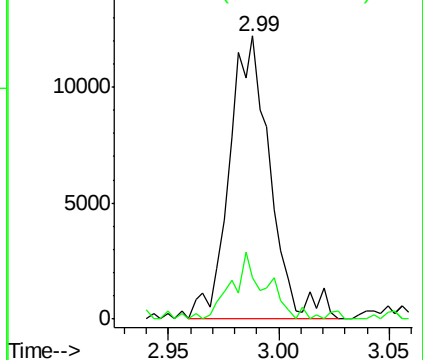
51 100

67 19.6 13.3 19.9



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.047 ppbv

RT: 3.14 min Scan# 62

Delta R.T. -0.00 min

Lab File: VL034090.D

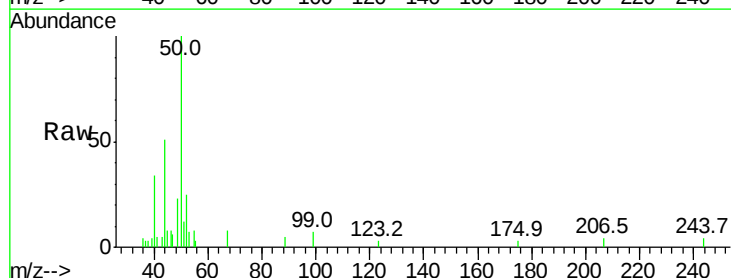
Acq: 5 Aug 2019 15:16

Tgt Ion: 50 Resp: 3857

Ion Ratio Lower Upper

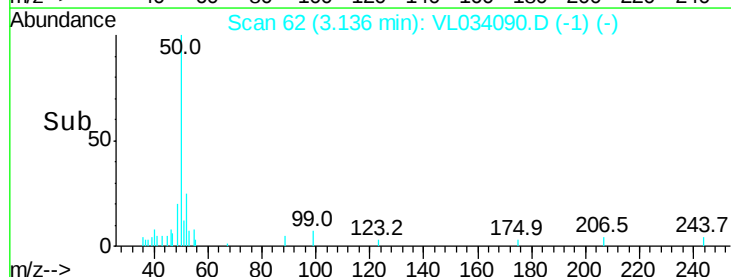
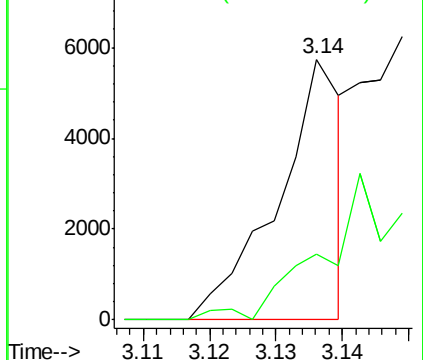
50 100

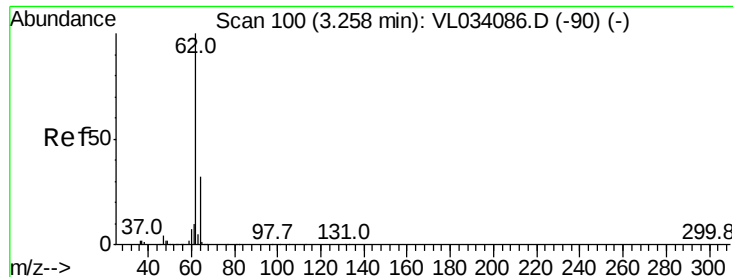
52 25.2 25.7 38.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.051 ppbv

RT: 3.26 min Scan# 99

Delta R.T. -0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

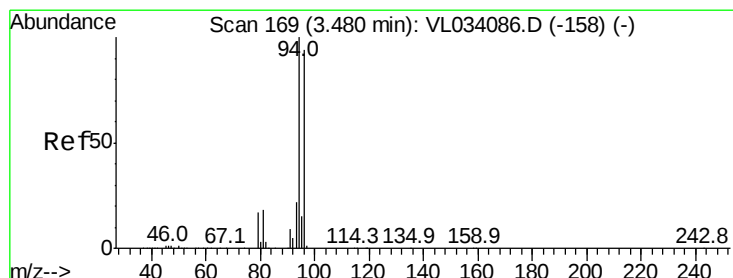
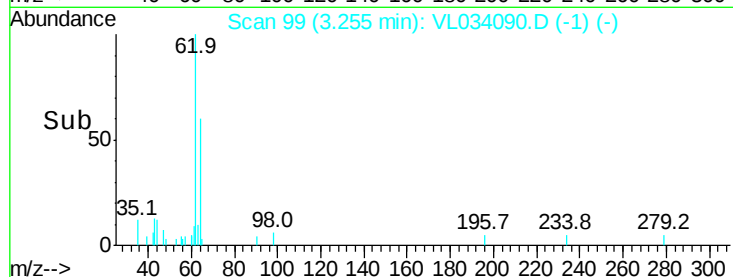
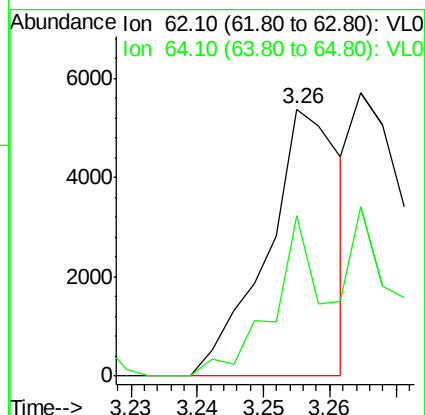
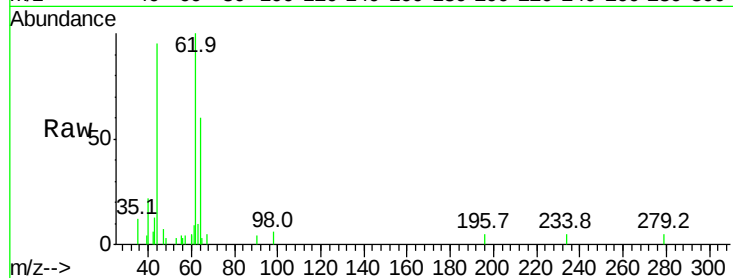
VSTDIC0.1

Tgt Ion: 62 Resp: 4124

Ion Ratio Lower Upper

62 100

64 60.3 25.8 38.6#



#6

Bromomethane

Concen: 0.022 ppbv

RT: 3.48 min Scan# 169

Delta R.T. 0.00 min

Lab File: VL034090.D

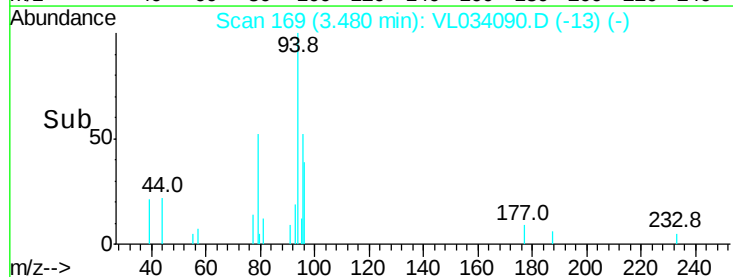
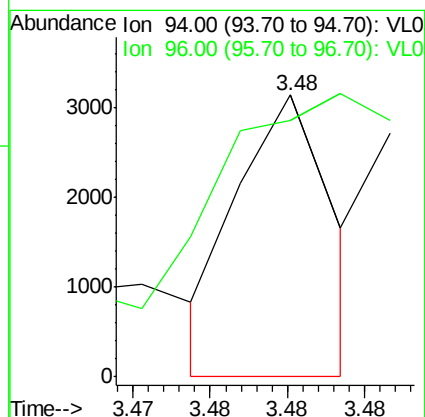
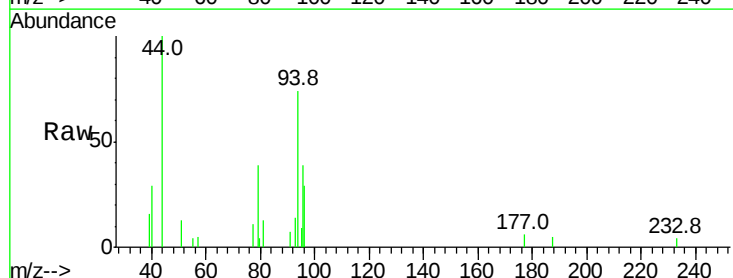
Acq: 5 Aug 2019 15:16

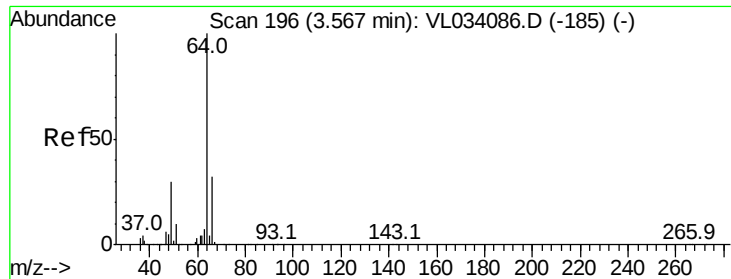
Tgt Ion: 94 Resp: 1342

Ion Ratio Lower Upper

94 100

96 56.4 75.3 112.9#





#7

Chloroethane

Concen: 0.023 ppbv

RT: 3.56 min Scan# 194

Delta R.T. -0.01 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

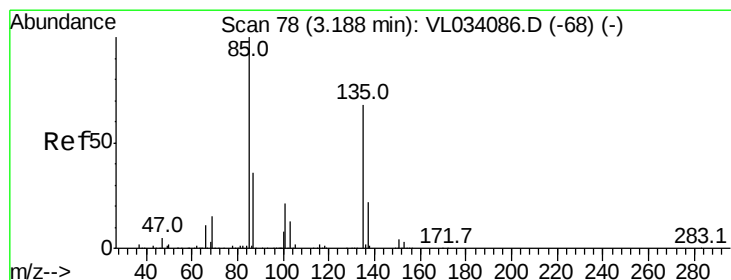
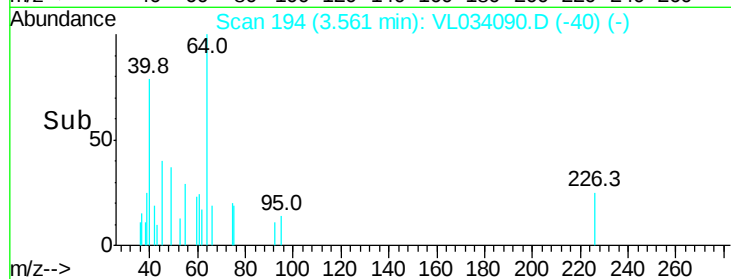
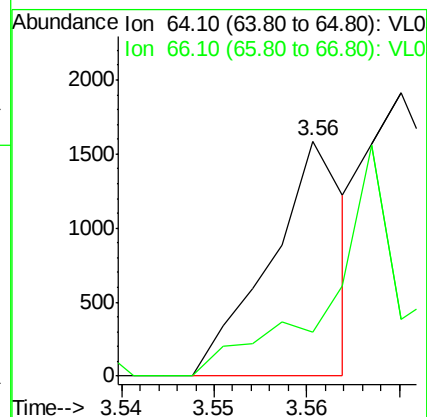
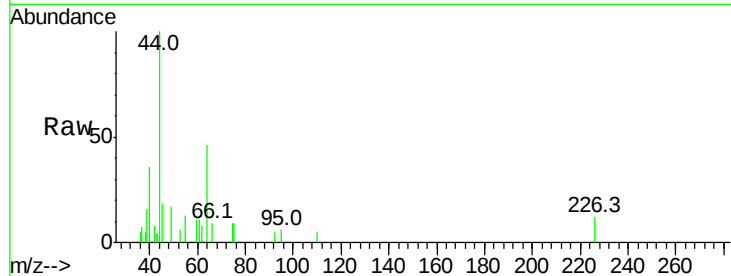
VSTDIC0.1

Tgt Ion: 64 Resp: 895

Ion Ratio Lower Upper

64 100

66 18.9 25.2 37.8#



#8

Dichlorotetrafluoroethane

Concen: 0.077 ppbv

RT: 3.19 min Scan# 79

Delta R.T. 0.00 min

Lab File: VL034090.D

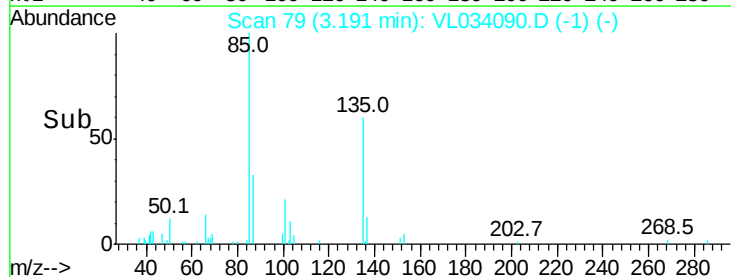
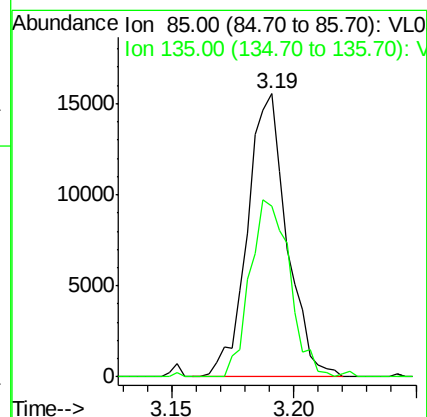
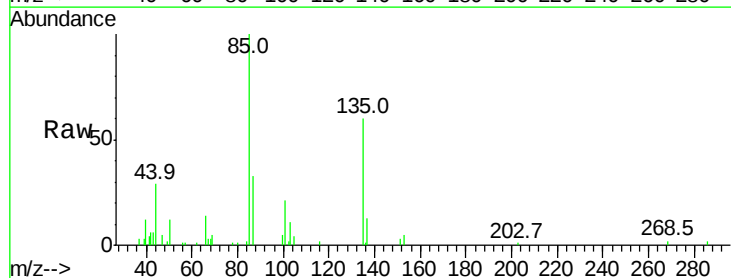
Acq: 5 Aug 2019 15:16

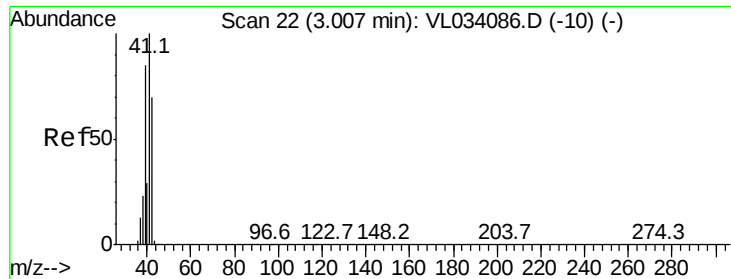
Tgt Ion: 85 Resp: 17380

Ion Ratio Lower Upper

85 100

135 63.2 54.0 81.0





#9

Propene

Concen: 0.201 ppbv

RT: 3.01 min Scan# 22

Delta R.T. 0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

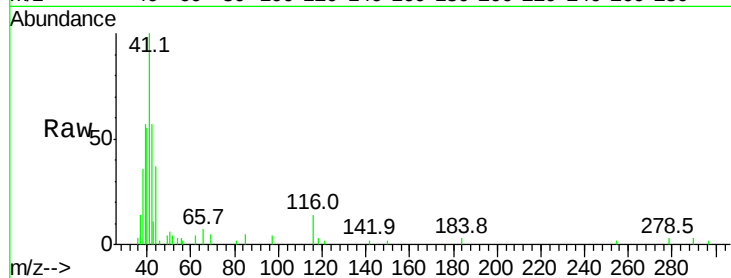
VSTDIC0.1

Tgt Ion: 41 Resp: 10999

Ion Ratio Lower Upper

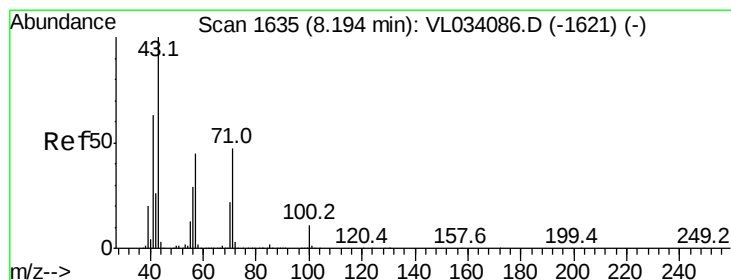
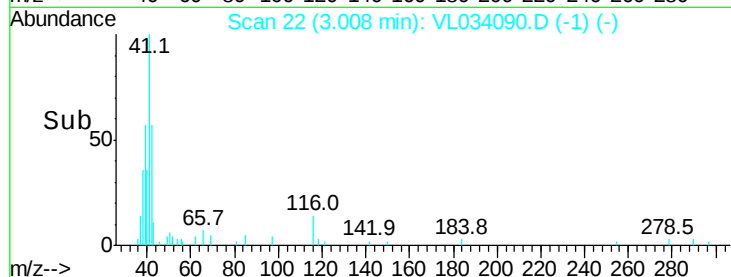
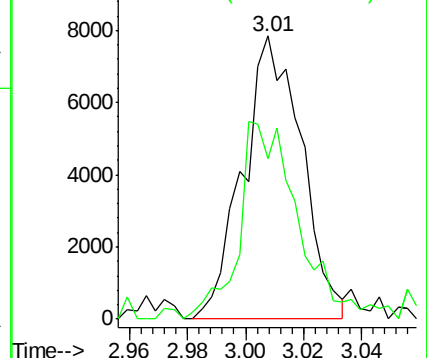
41 100

42 73.9 55.8 83.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.072 ppbv

RT: 8.18 min Scan# 1632

Delta R.T. -0.01 min

Lab File: VL034090.D

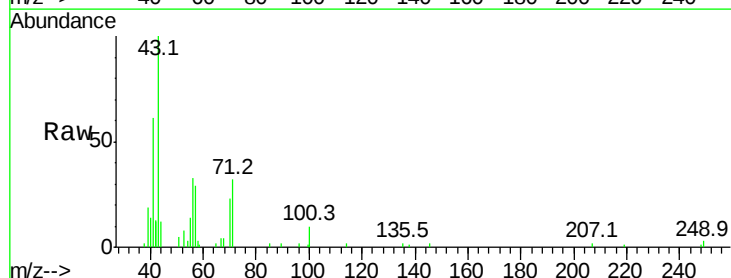
Acq: 5 Aug 2019 15:16

Tgt Ion: 43 Resp: 10942

Ion Ratio Lower Upper

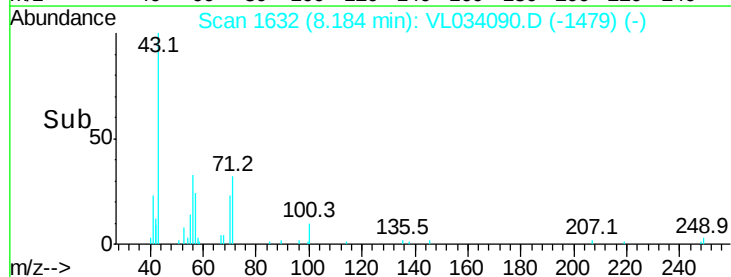
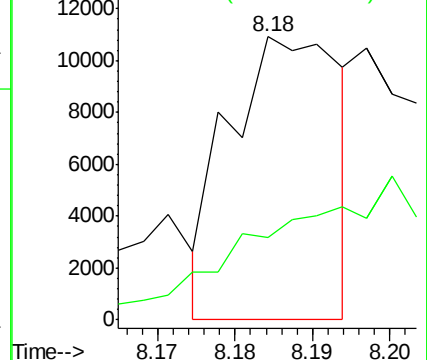
43 100

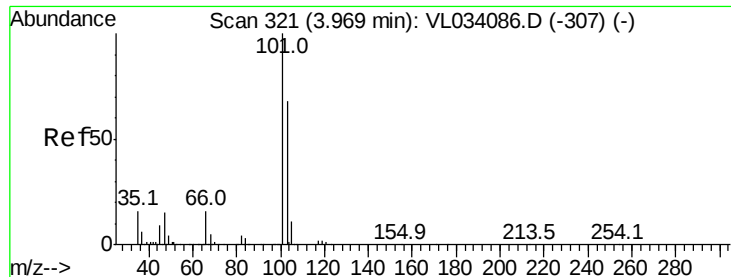
57 0.0 37.2 55.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.002 ppbv

RT: 3.99 min Scan# 329

Delta R.T. 0.03 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

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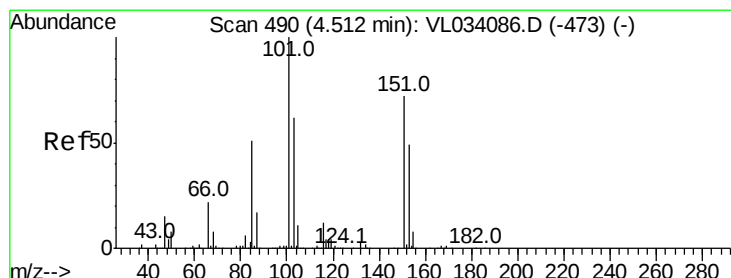
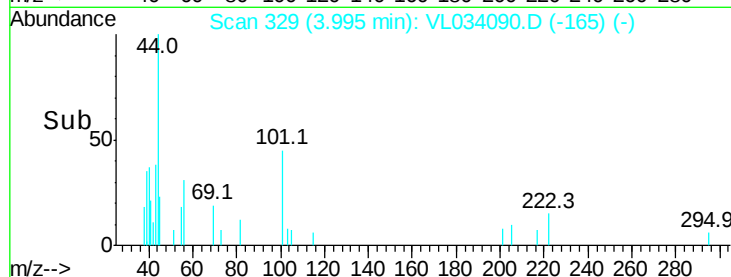
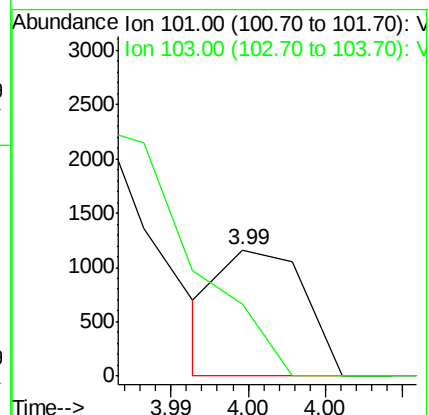
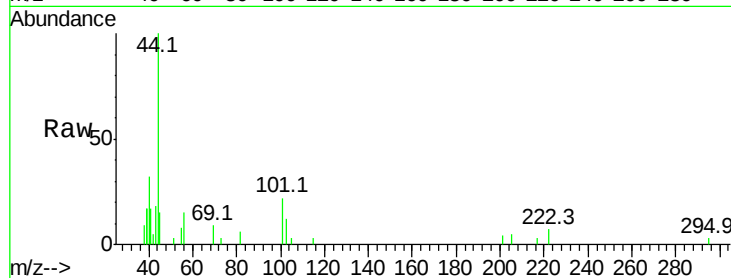
VSTDIC0.1

Tgt Ion:101 Resp: 427

Ion Ratio Lower Upper

101 100

103 56.7 54.3 81.5



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.059 ppbv

RT: 4.51 min Scan# 490

Delta R.T. 0.00 min

Lab File: VL034090.D

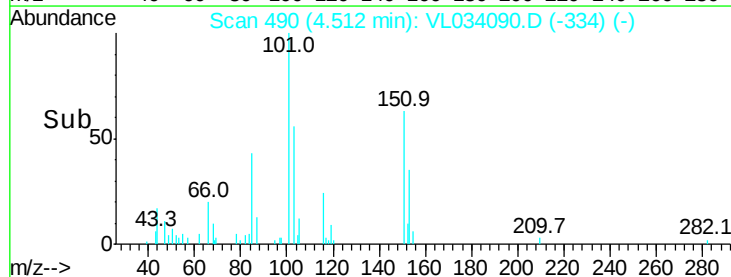
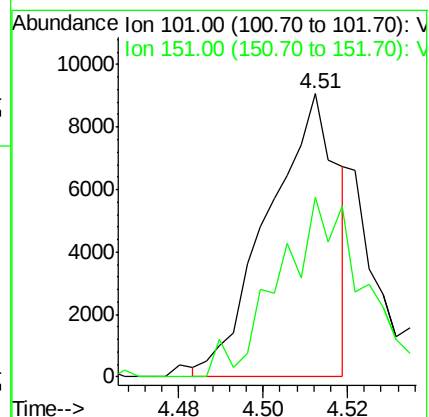
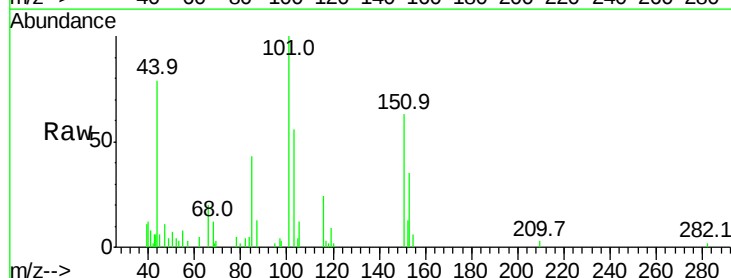
Acq: 5 Aug 2019 15:16

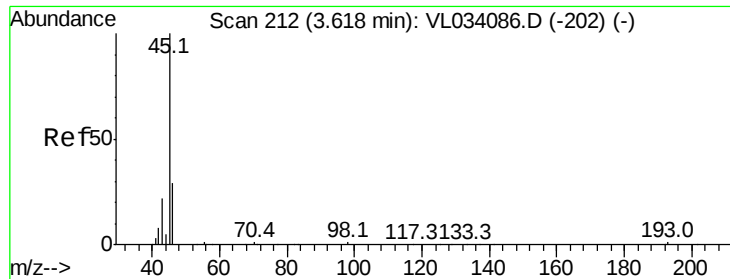
Tgt Ion:101 Resp: 10351

Ion Ratio Lower Upper

101 100

151 79.0 59.4 89.0





#13

Ethanol

Concen: 0.009 ppbv

RT: 3.62 min Scan# 211

Delta R.T. -0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

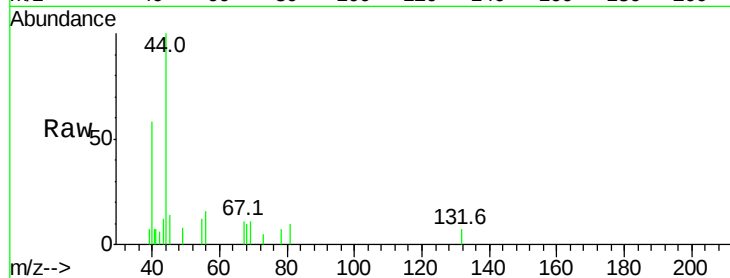
VSTDIC0.1

Tgt Ion: 45 Resp: 195

Ion Ratio Lower Upper

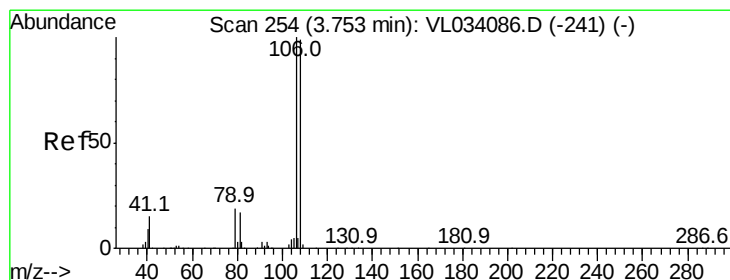
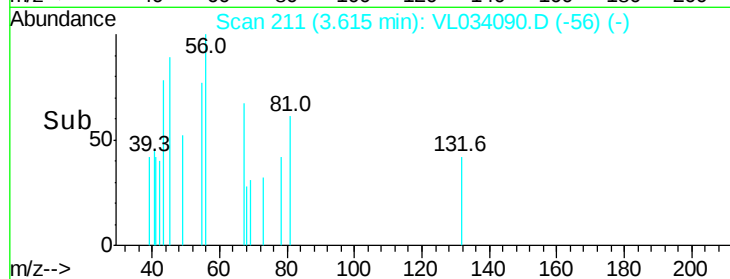
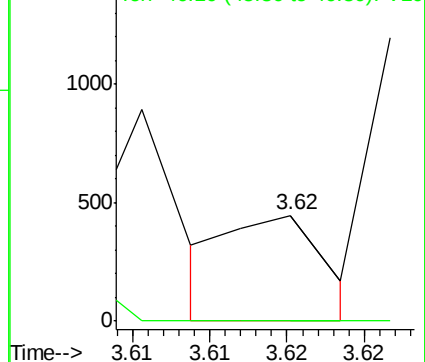
45 100

46 0.0 14.9 59.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 0.052 ppbv

RT: 3.75 min Scan# 254

Delta R.T. 0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

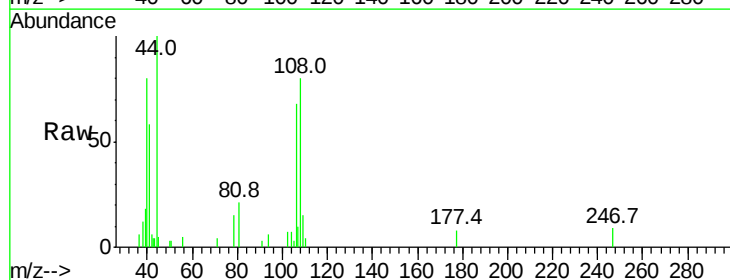
Tgt Ion: 108 Resp: 5130

Ion Ratio Lower Upper

108 100

106 0.0 85.0 127.6#

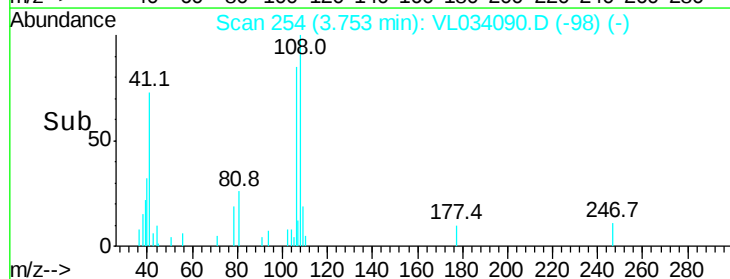
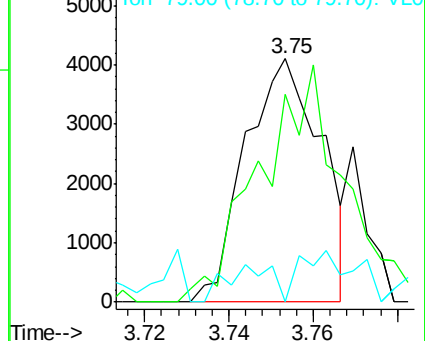
79 6.5 15.8 23.8#

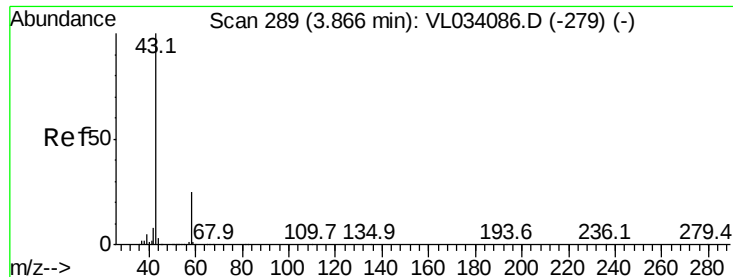


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 0.002 ppbv

RT: 3.85 min Scan# 283

Delta R.T. -0.02 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

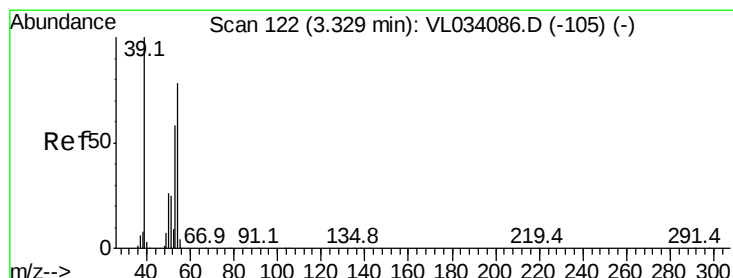
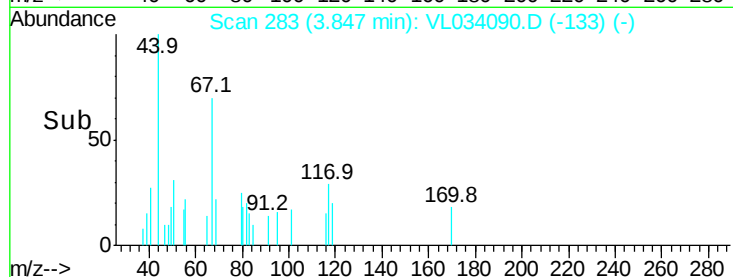
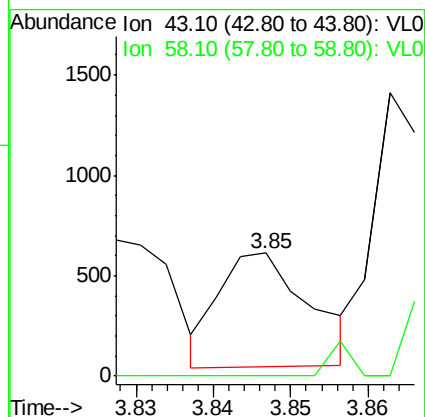
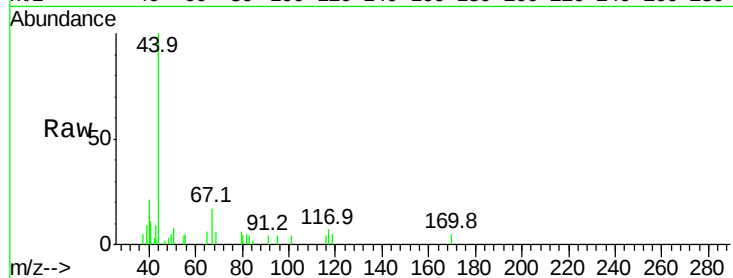
VSTDIC0.1

Tgt Ion: 43 Resp: 461

Ion Ratio Lower Upper

43 100

58 0.0 20.6 30.8#



#16

1,3-Butadiene

Concen: 0.124 ppbv

RT: 3.34 min Scan# 124

Delta R.T. 0.01 min

Lab File: VL034090.D

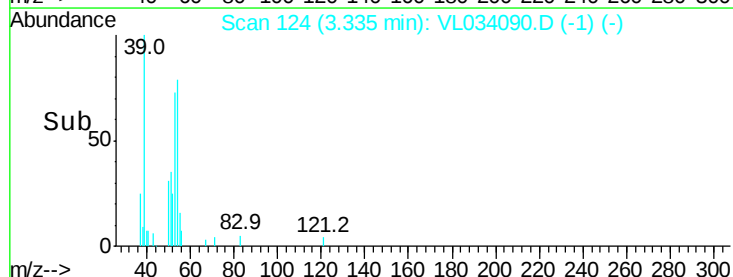
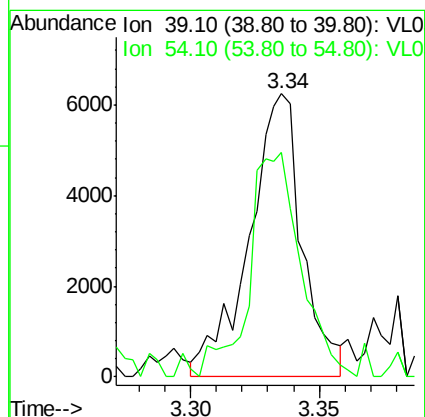
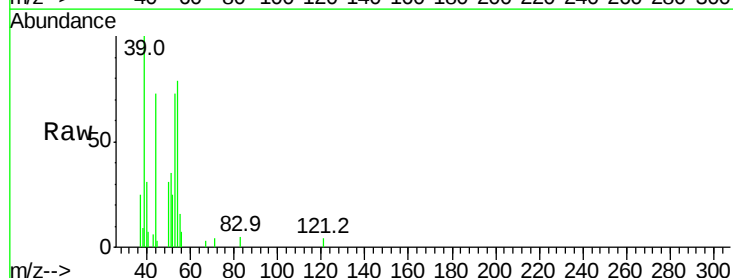
Acq: 5 Aug 2019 15:16

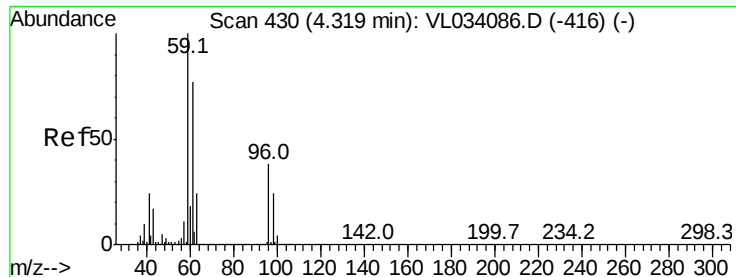
Tgt Ion: 39 Resp: 8979

Ion Ratio Lower Upper

39 100

54 86.5 62.7 94.1





#17

tert-Butyl alcohol

Concen: 0.002 ppbv

RT: 4.31 min Scan# 428

Delta R.T. -0.01 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

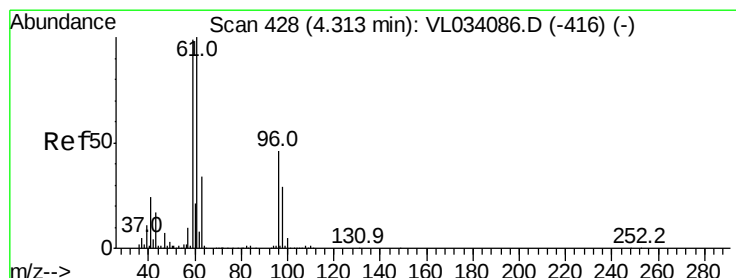
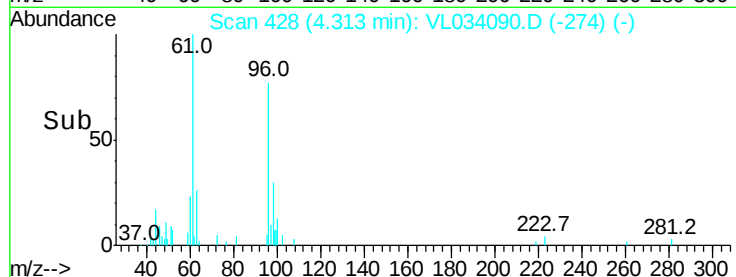
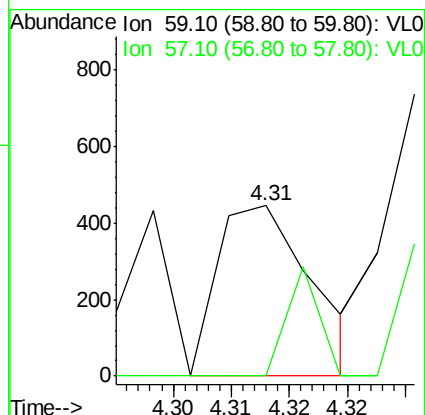
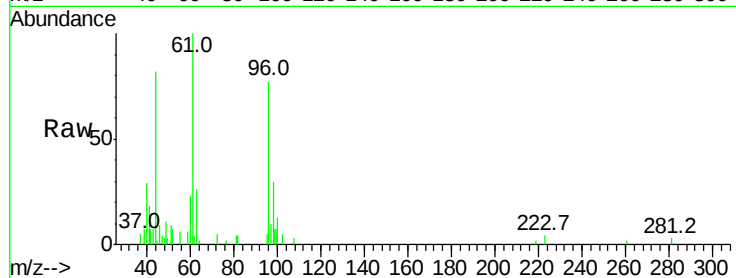
VSTDIC0.1

Tgt Ion: 59 Resp: 252

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



#18

1,1-Dichloroethene

Concen: 0.030 ppbv

RT: 4.31 min Scan# 428

Delta R.T. 0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

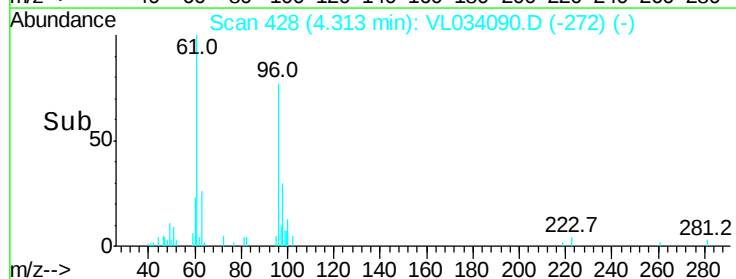
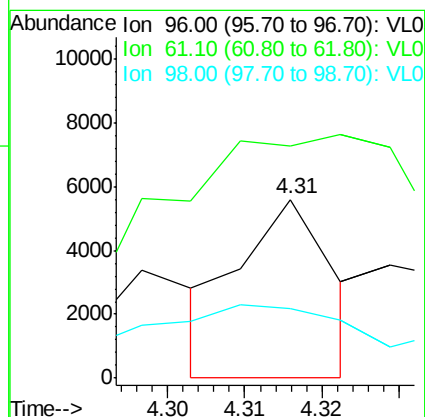
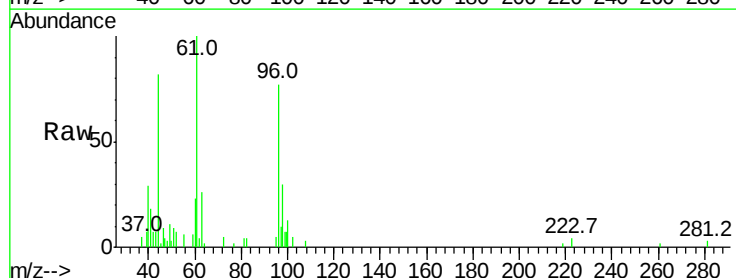
Tgt Ion: 96 Resp: 2318

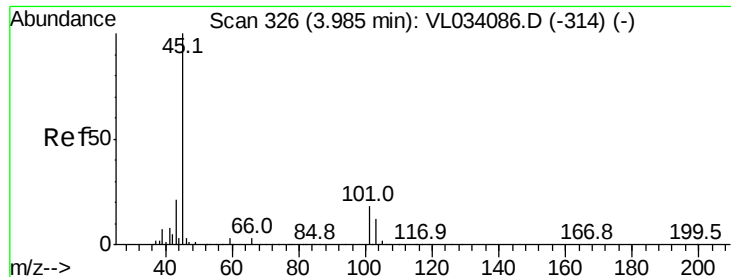
Ion Ratio Lower Upper

96 100

61 67.3 173.1 259.7#

98 14.5 50.3 75.5#





#19

Isopropyl Alcohol

Concen: 0.001 ppbv

RT: 3.98 min Scan# 325

Delta R.T. -0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

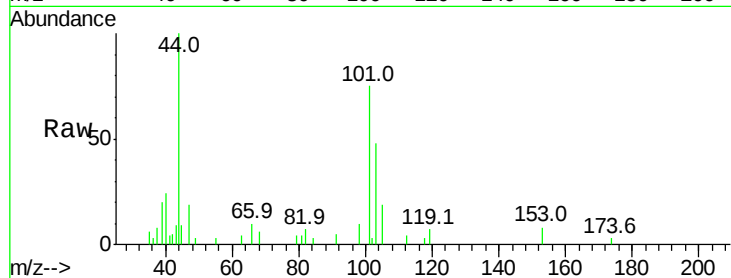
VSTDIC0.1

Tgt Ion: 45 Resp: 133

Ion Ratio Lower Upper

45 100

58 0.0 24.6 37.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.98

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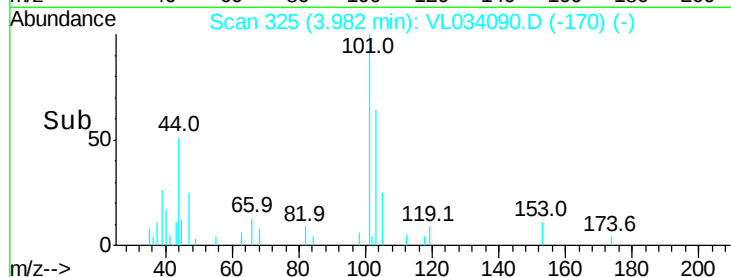
3.98

3.98

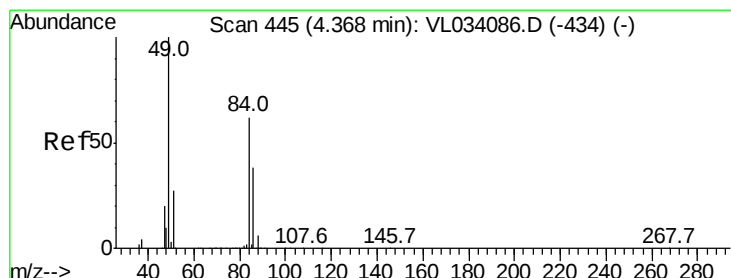
3.98

3.98

3.98



Time-->



#20

Methylene Chloride

Concen: 0.095 ppbv

RT: 4.37 min Scan# 446

Delta R.T. 0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Tgt Ion: 84 Resp: 6803

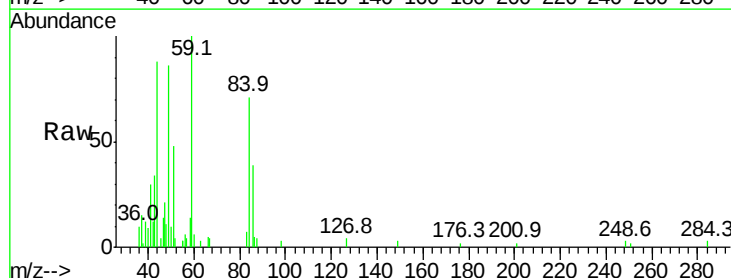
Ion Ratio Lower Upper

84 100

49 113.1 129.7 194.5#

51 54.9 35.8 53.8#

86 61.4 49.8 74.8



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

10000

5000

0

4.34

4.36

4.38

4.40

4.37

4.37

4.37

4.37

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4.37

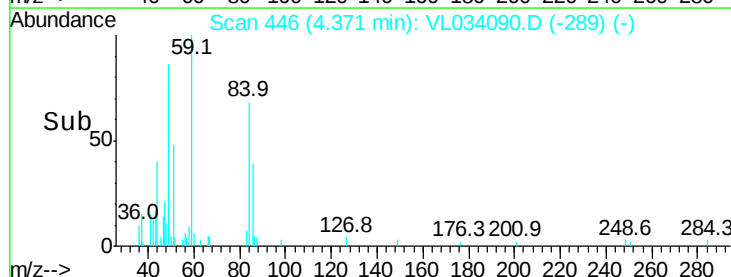
4.37

4.37

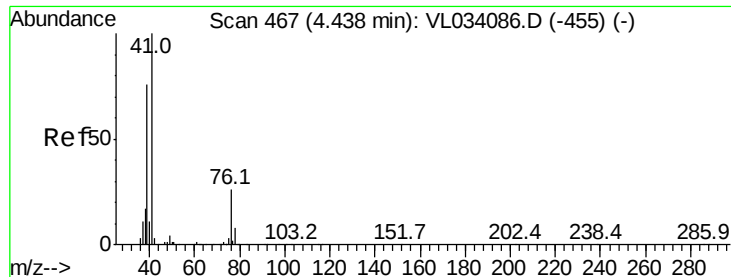
4.37

4.37

4.37



Time-->



#21

Allyl Chloride

Concen: 0.023 ppbv

RT: 4.43 min Scan# 465

Delta R.T. -0.01 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

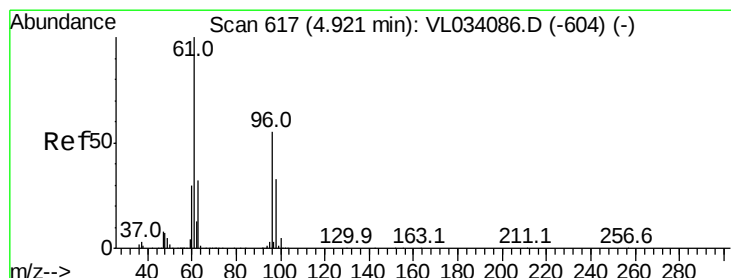
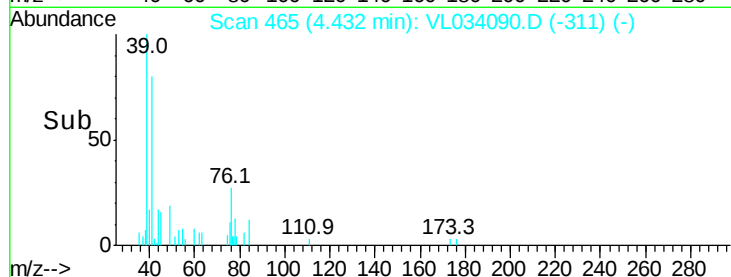
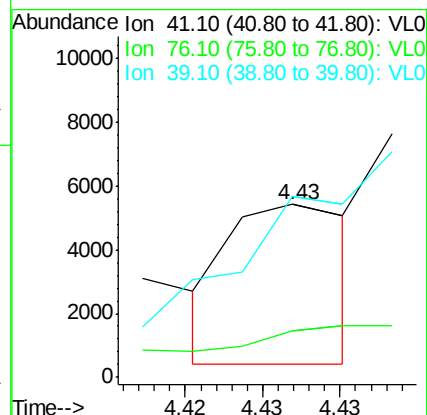
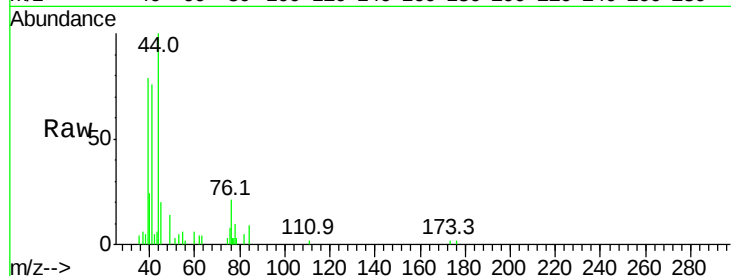
Tgt Ion: 41 Resp: 2755

Ion Ratio Lower Upper

41 100

76 0.0 20.8 31.2#

39 0.0 61.3 91.9#



#22

trans-1,2-Dichloroethene

Concen: 0.029 ppbv

RT: 4.92 min Scan# 616

Delta R.T. -0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

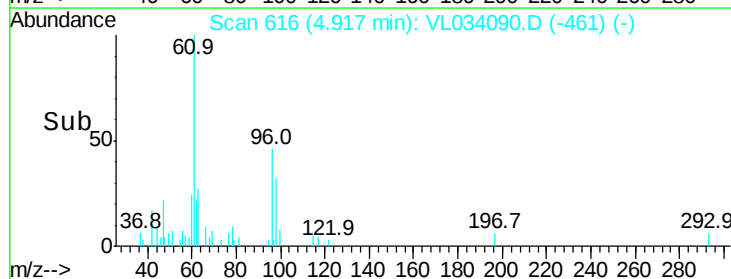
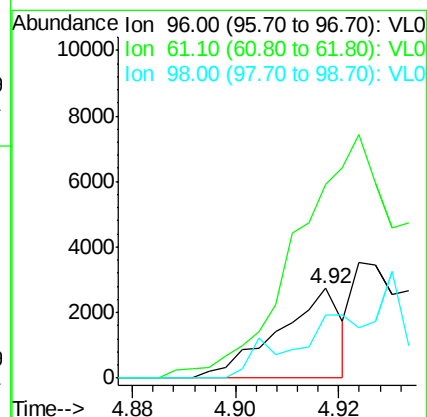
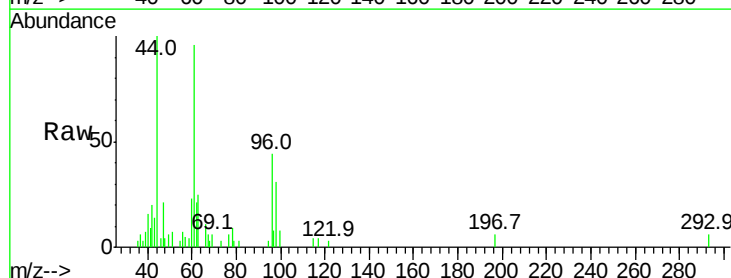
Tgt Ion: 96 Resp: 2302

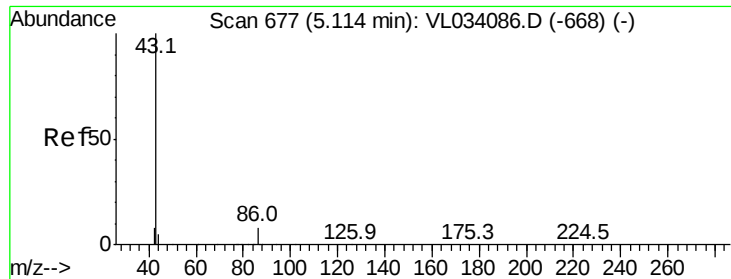
Ion Ratio Lower Upper

96 100

61 205.5 144.2 216.2

98 70.3 48.0 72.0

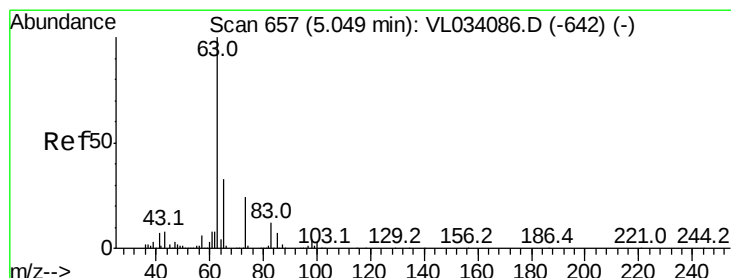
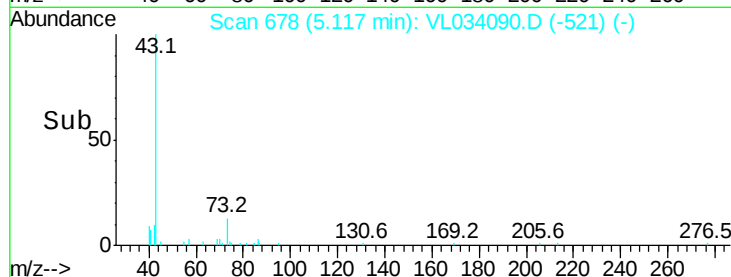
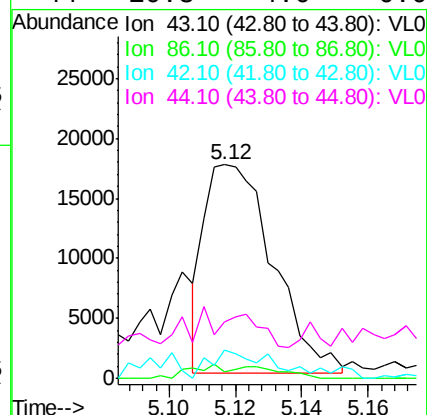
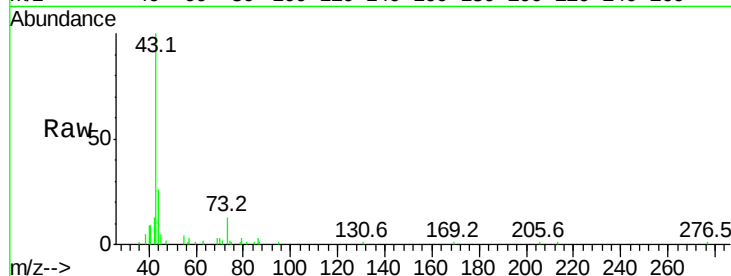




#23
 Vinyl Acetate
 Concen: 0.122 ppbv
 RT: 5.12 min Scan# 678
 Delta R.T. 0.00 min
 Lab File: VL034090.D
 Acq: 5 Aug 2019 15:16

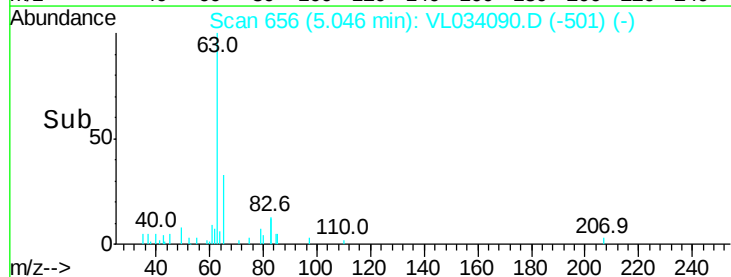
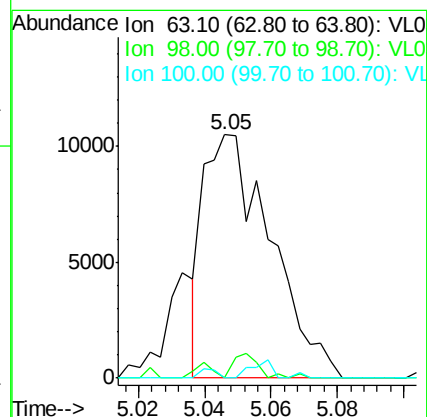
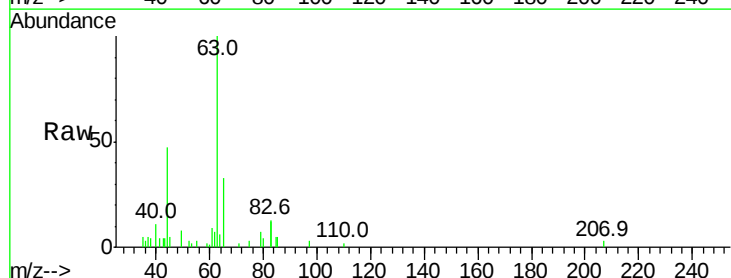
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

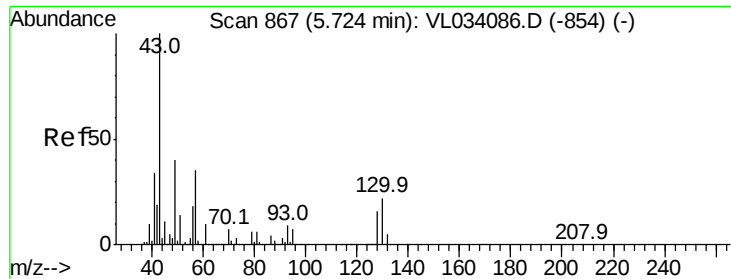
Tgt Ion:	43	Resp:	24928
Ion	Ratio	Lower	Upper
43	100		
86	3.5	5.4	8.0#
42	14.3	7.9	11.9#
44	10.3	4.0	6.0#



#24
 1,1-Dichloroethane
 Concen: 0.086 ppbv
 RT: 5.05 min Scan# 656
 Delta R.T. -0.00 min
 Lab File: VL034090.D
 Acq: 5 Aug 2019 15:16

Tgt Ion:	63	Resp:	14772
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.0	6.0#
100	0.0	1.3	3.8#





#25

Ethyl Acetate

Concen: 0.122 ppbv

RT: 5.74 min Scan# 871

Delta R.T. 0.01 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 43 Resp: 35906

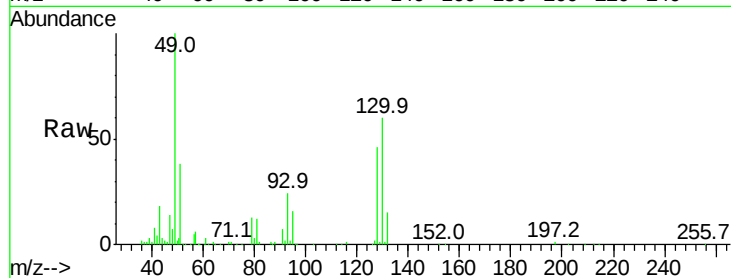
Ion Ratio Lower Upper

43 100

45 12.4 8.4 12.6

61 10.0 7.3 10.9

70 8.3 5.8 8.6

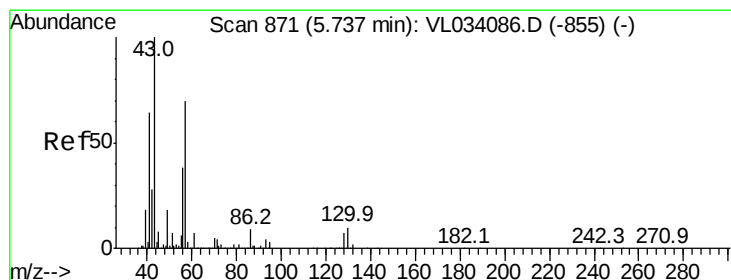
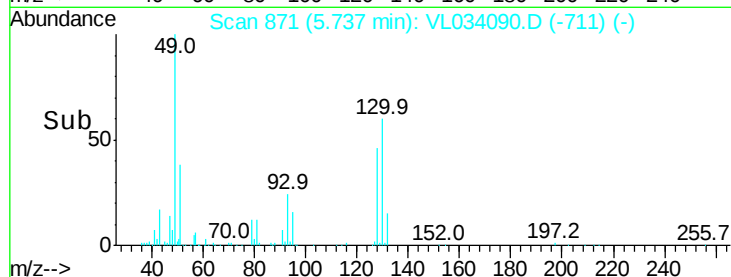
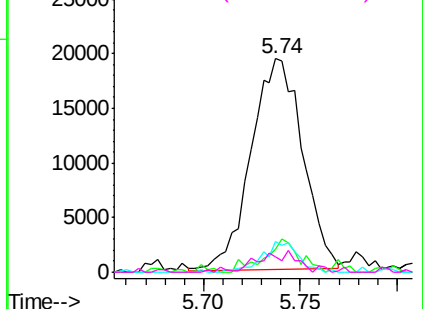


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.071 ppbv

RT: 5.73 min Scan# 869

Delta R.T. -0.01 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Tgt Ion: 57 Resp: 9370

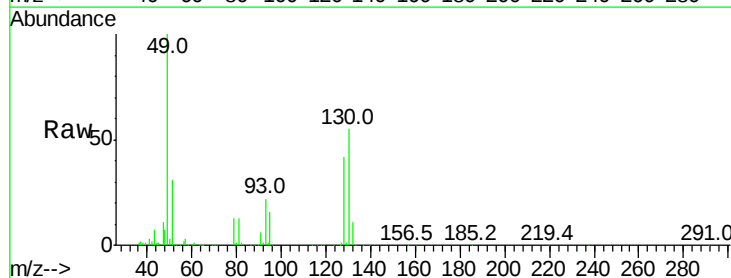
Ion Ratio Lower Upper

57 100

41 163.6 75.7 113.5#

43 419.8 189.8 284.8#

56 97.4 42.7 64.1#

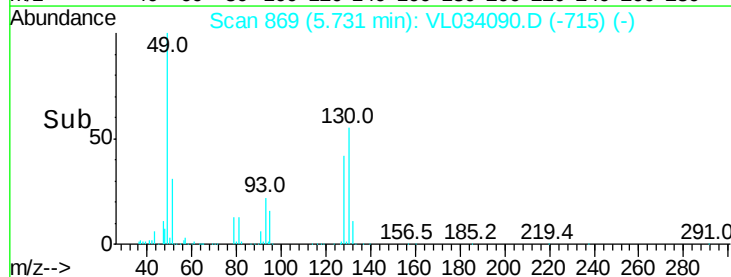
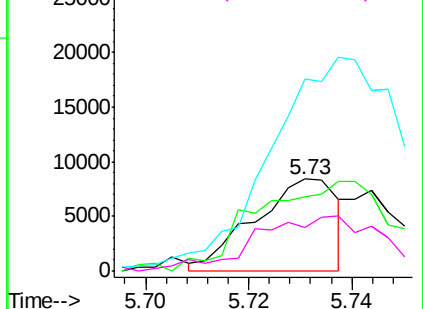


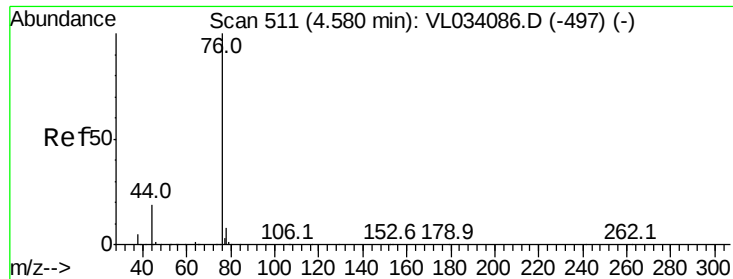
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.062 ppbv

RT: 4.58 min Scan# 511

Delta R.T. 0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

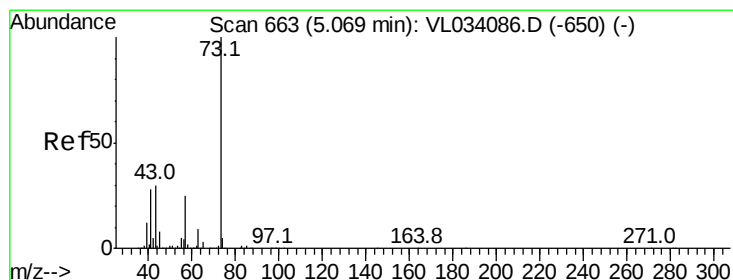
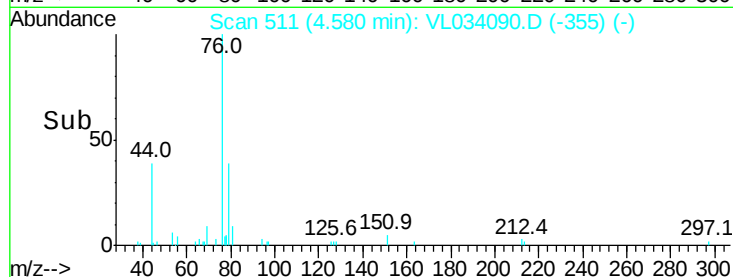
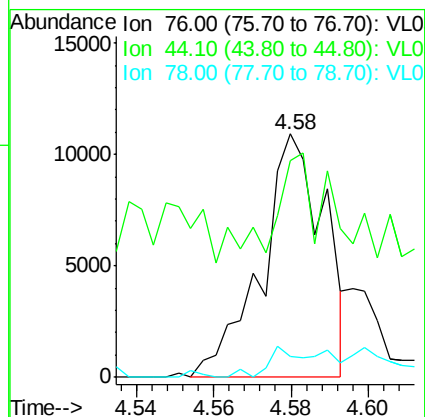
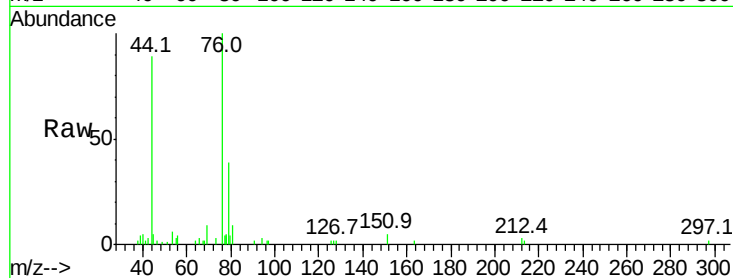
Tgt Ion: 76 Resp: 12291

Ion Ratio Lower Upper

76 100

44 58.1 17.8 26.6#

78 24.6 7.7 11.5#



#28

Methyl tert-Butyl Ether

Concen: 0.079 ppbv

RT: 5.09 min Scan# 669

Delta R.T. 0.02 min

Lab File: VL034090.D

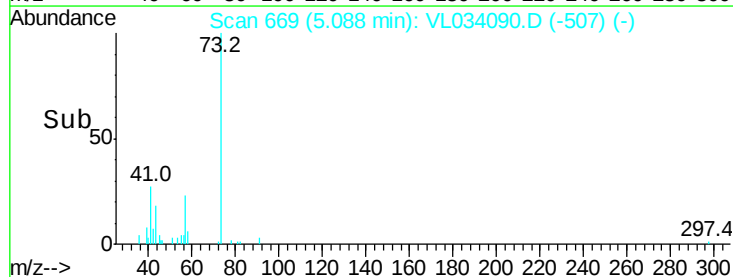
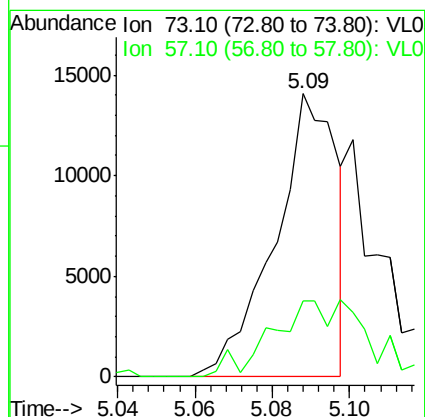
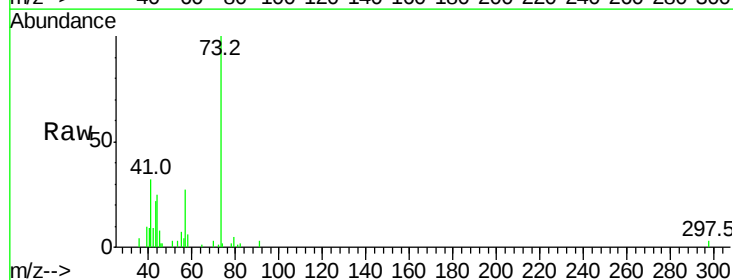
Acq: 5 Aug 2019 15:16

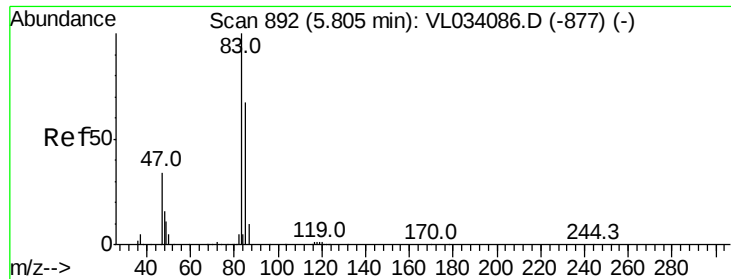
Tgt Ion: 73 Resp: 15648

Ion Ratio Lower Upper

73 100

57 2.6 19.5 29.3#





#29

Chloroform

Concen: 0.036 ppbv

RT: 5.80 min Scan# 892

Delta R.T. 0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

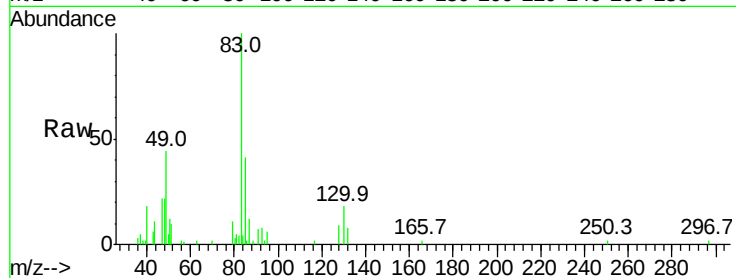
VSTDIC0.1

Tgt Ion: 83 Resp: 8424

Ion Ratio Lower Upper

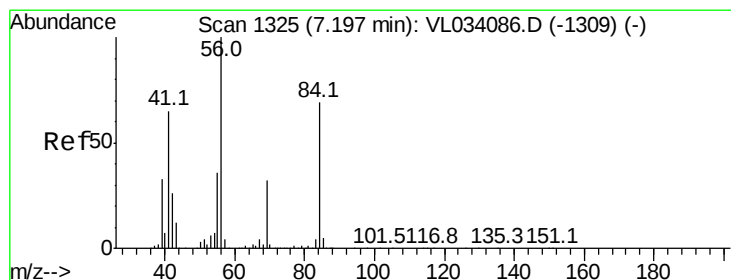
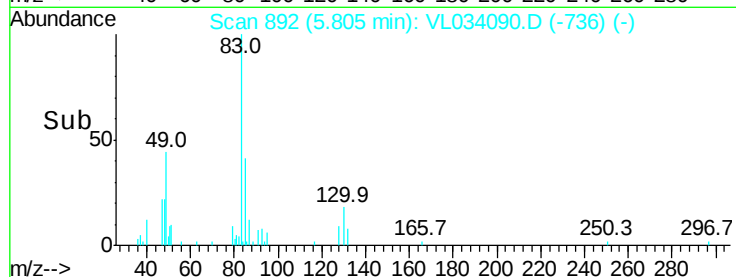
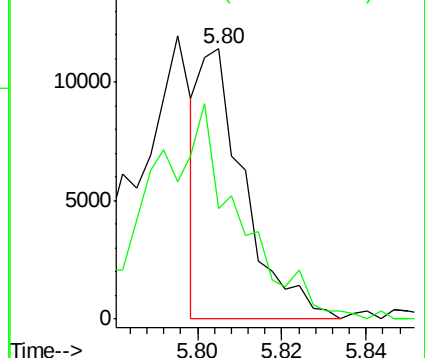
83 100

85 37.7 53.2 79.8#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 0.055 ppbv

RT: 7.19 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

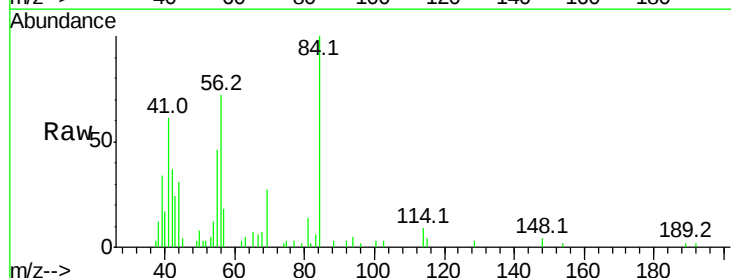
Tgt Ion: 84 Resp: 5855

Ion Ratio Lower Upper

84 100

56 0.0 122.6 184.0#

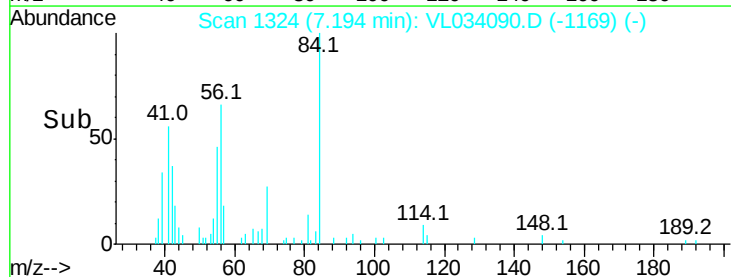
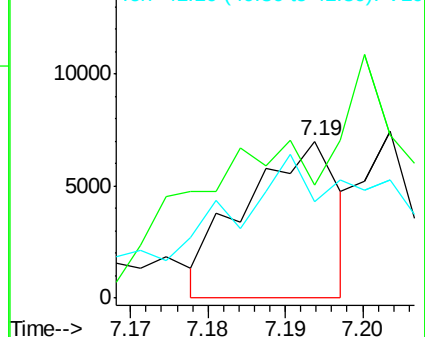
41 230.4 80.1 120.1#

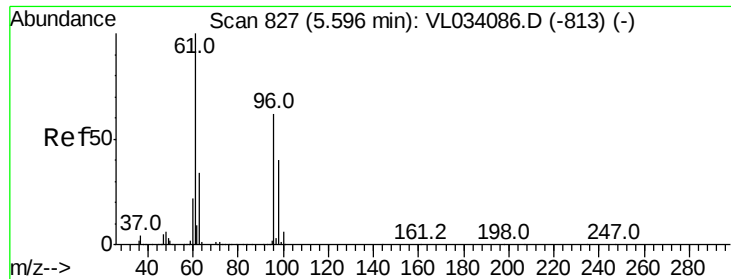


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

cis-1,2-Dichloroethene

Concen: 0.103 ppbv

RT: 5.59 min Scan# 825

Delta R.T. -0.01 min

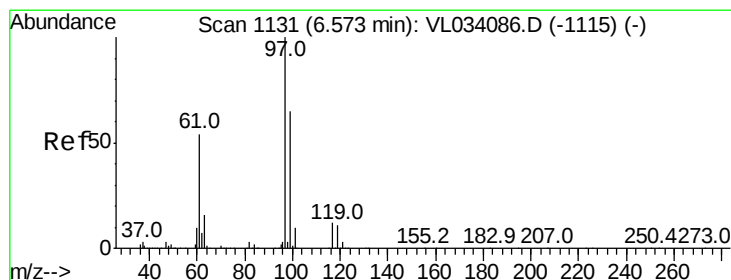
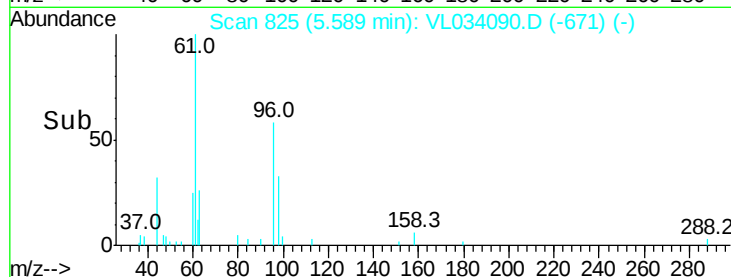
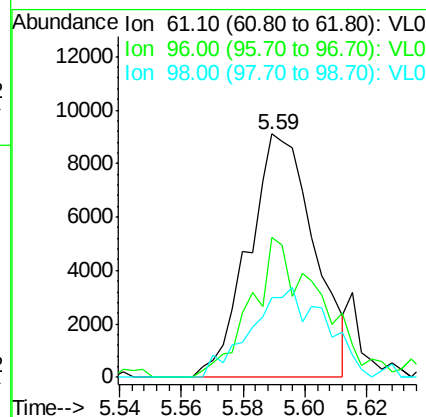
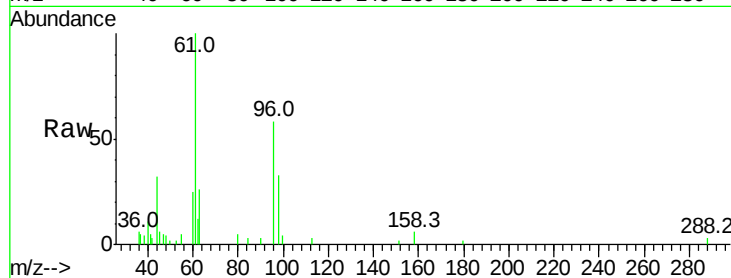
Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tgt Ion: 61 Resp: 13416

Ion	Ratio	Lower	Upper
61	100		
96	57.5	49.3	73.9
98	32.7	32.4	48.6



#32

1,1,1-Trichloroethane

Concen: 0.034 ppbv

RT: 6.57 min Scan# 1129

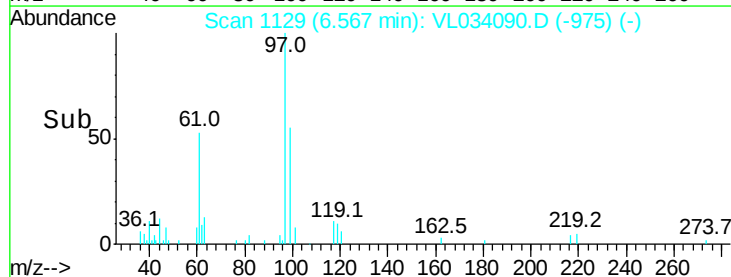
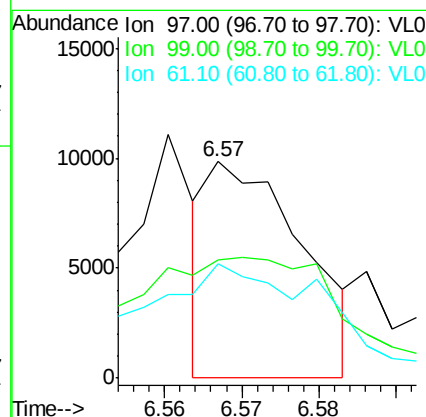
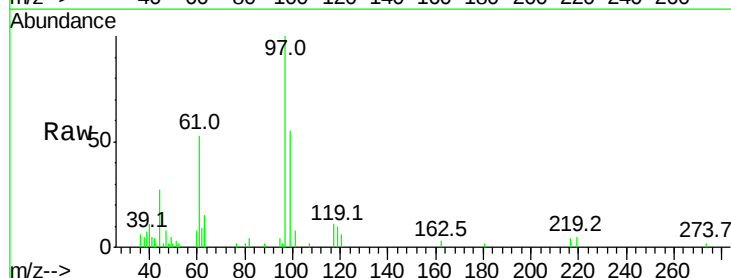
Delta R.T. -0.01 min

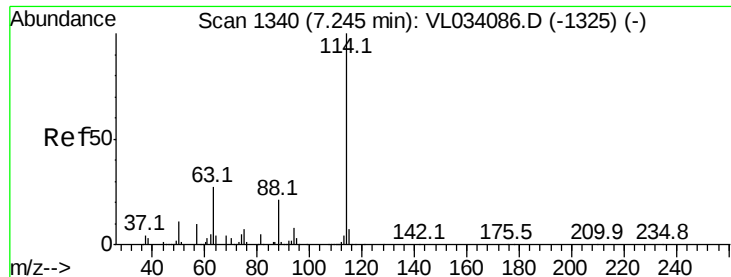
Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Tgt Ion: 97 Resp: 8391

Ion	Ratio	Lower	Upper
97	100		
99	136.5	52.2	78.4#
61	116.0	42.0	63.0#

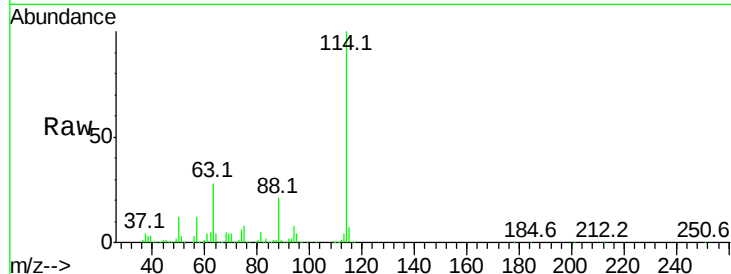




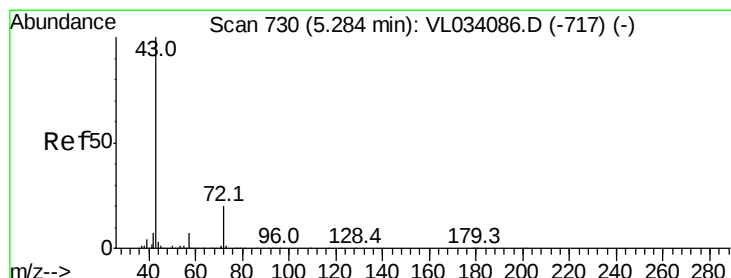
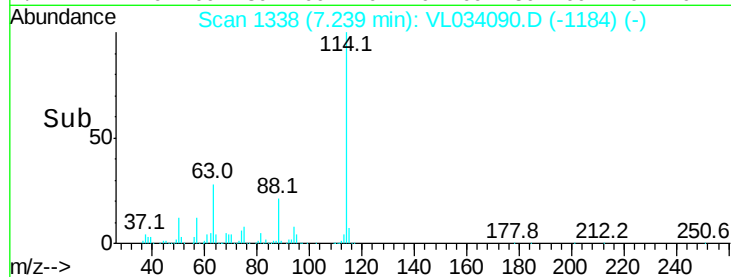
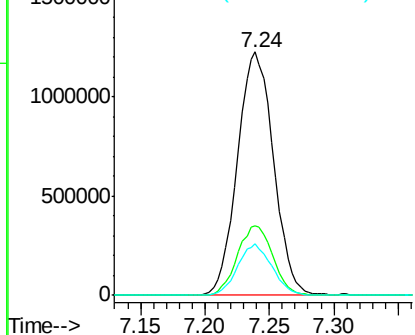
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1338
 Delta R.T. -0.01 min
 Lab File: VL034090.D
 Acq: 5 Aug 2019 15:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tgt Ion:114 Resp: 2397955
 Ion Ratio Lower Upper
 114 100
 63 28.3 22.5 33.7
 88 20.1 15.7 23.5

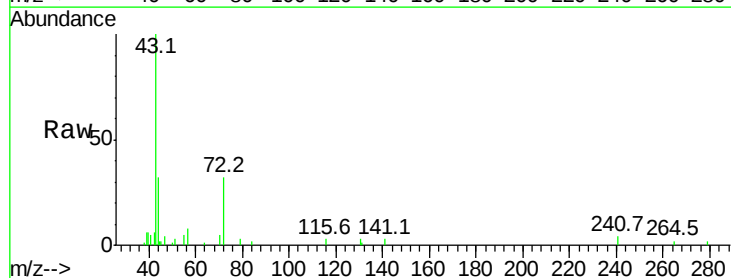


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

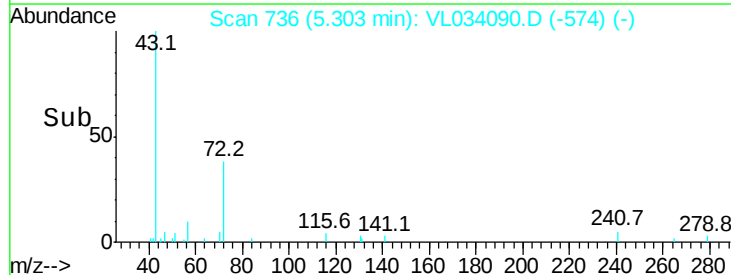
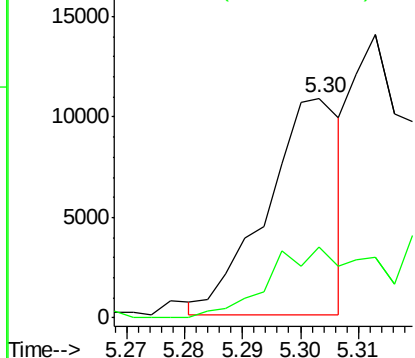


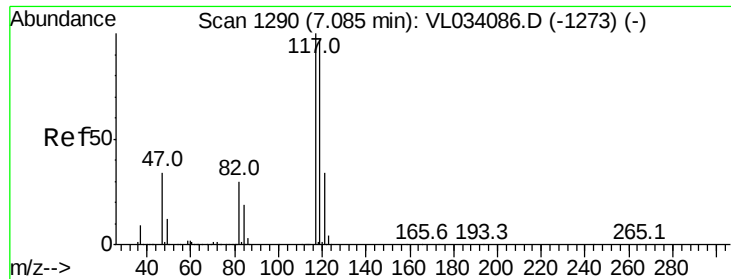
#34
 2-Butanone
 Concen: 0.070 ppbv
 RT: 5.30 min Scan# 736
 Delta R.T. 0.02 min
 Lab File: VL034090.D
 Acq: 5 Aug 2019 15:16

Tgt Ion: 43 Resp: 9572
 Ion Ratio Lower Upper
 43 100
 72 0.0 16.0 24.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.092 ppbv

RT: 7.08 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

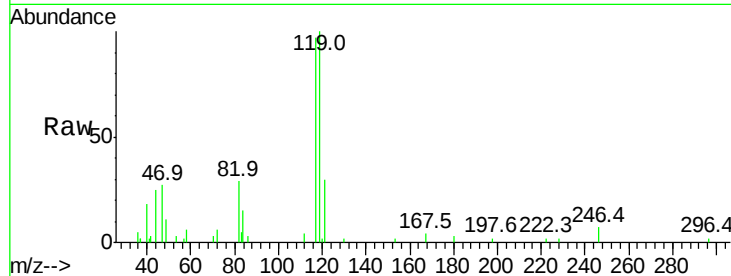
Tgt Ion:117 Resp: 17736

Ion Ratio Lower Upper

117 100

119 101.0 77.8 116.6

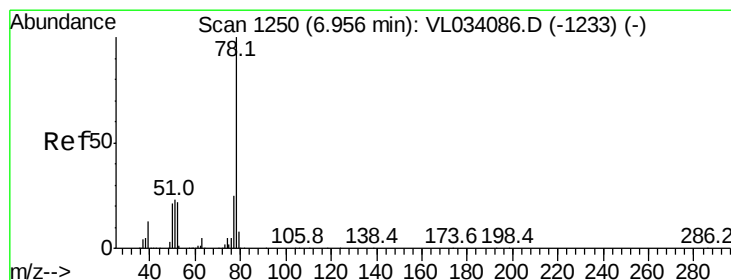
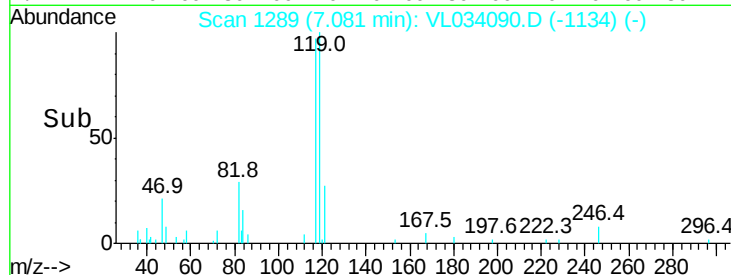
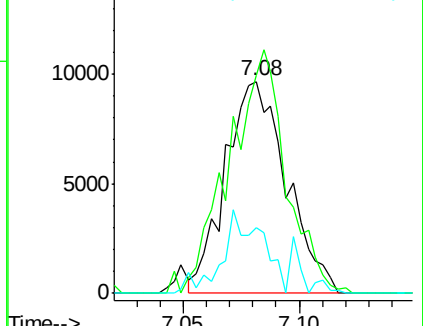
121 29.6 27.4 41.2



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: 0.061 ppbv

RT: 6.95 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

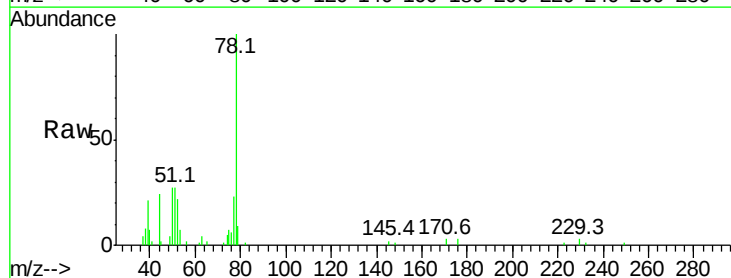
Tgt Ion: 78 Resp: 13932

Ion Ratio Lower Upper

78 100

77 19.9 19.9 29.9#

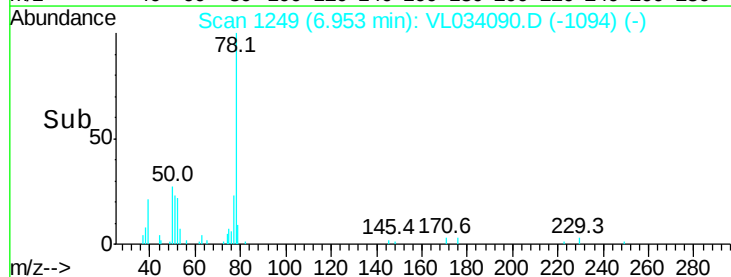
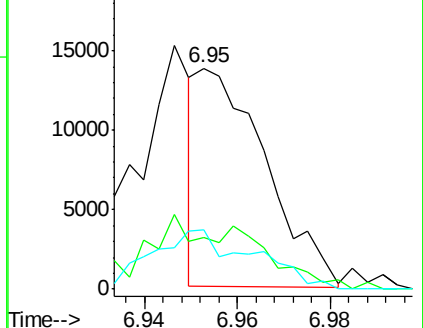
50 25.9 16.7 25.1#

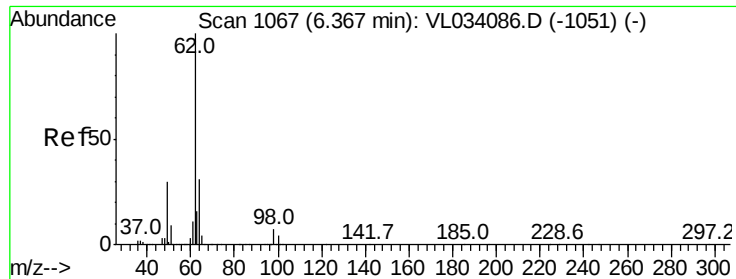


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 0.102 ppbv

RT: 6.36 min Scan# 1065

Delta R.T. -0.01 min

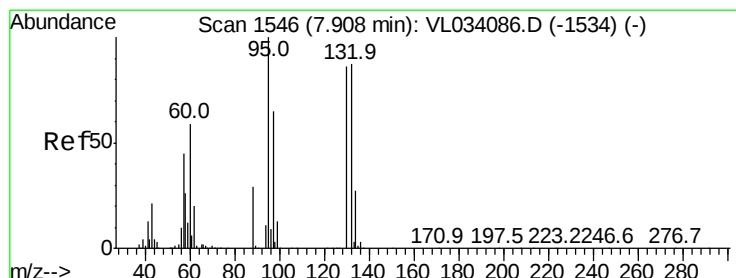
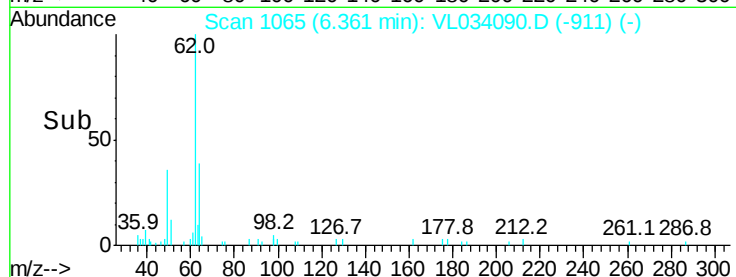
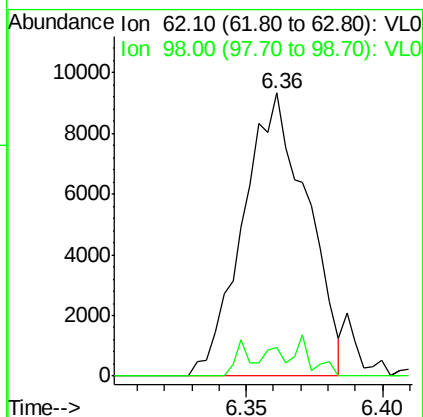
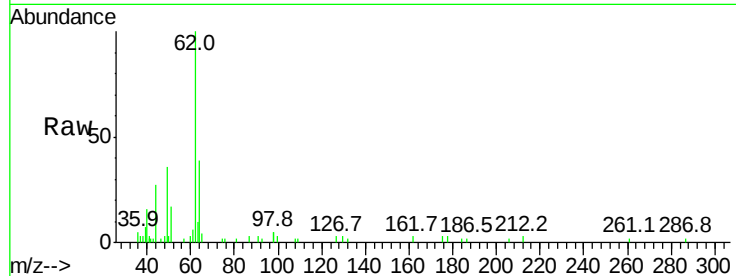
Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tgt Ion: 62 Resp: 15276

Ion	Ratio	Lower	Upper
62	100		
98	9.8	4.9	7.3#



#38

Trichloroethene

Concen: 0.061 ppbv

RT: 7.90 min Scan# 1543

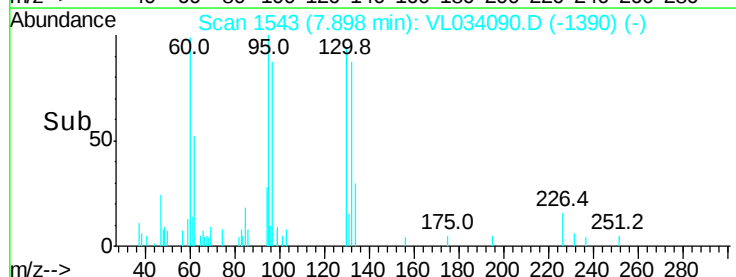
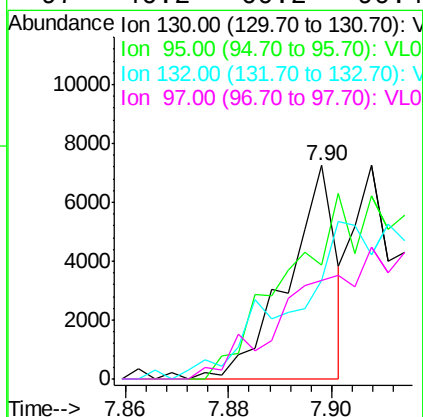
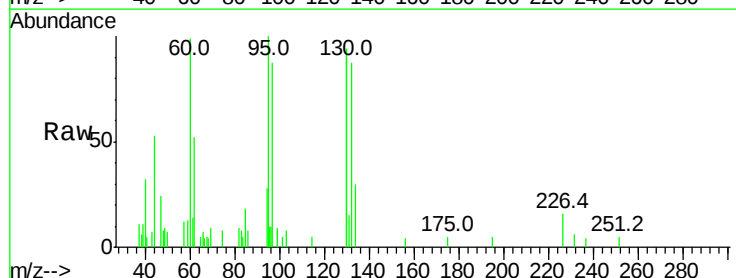
Delta R.T. -0.01 min

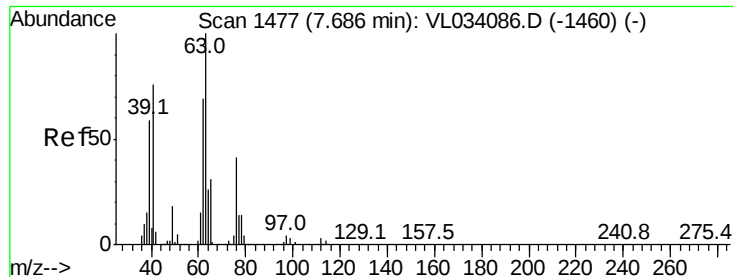
Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Tgt Ion: 130 Resp: 4688

Ion	Ratio	Lower	Upper
130	100		
95	58.7	92.1	138.1#
132	42.3	79.7	119.5#
97	46.2	60.2	90.4#





#39

1,2-Dichloropropane

Concen: 0.144 ppbv

RT: 7.68 min Scan# 1475

Delta R.T. -0.01 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

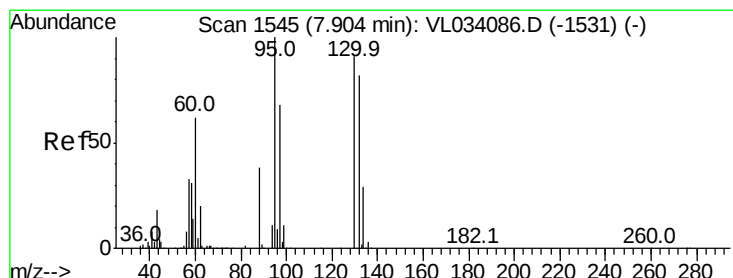
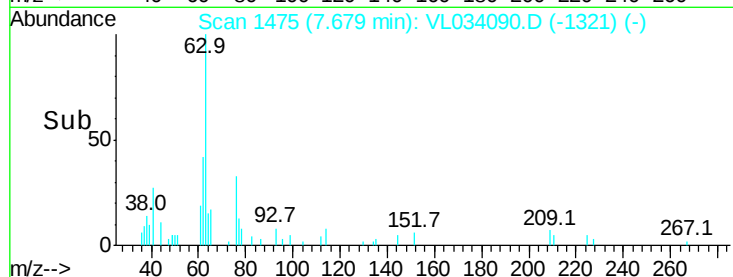
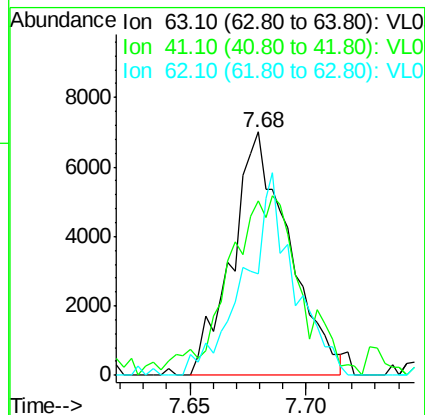
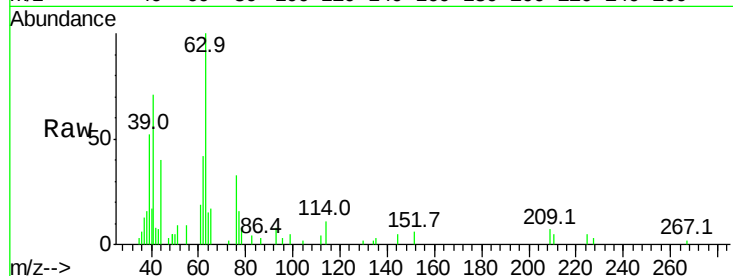
Tgt Ion: 63 Resp: 11942

Ion Ratio Lower Upper

63 100

41 67.6 60.6 91.0

62 38.0 55.0 82.6#



#40

1,4-Dioxane

Concen: 0.004 ppbv

RT: 7.93 min Scan# 1553

Delta R.T. 0.03 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Tgt Ion: 88 Resp: 121

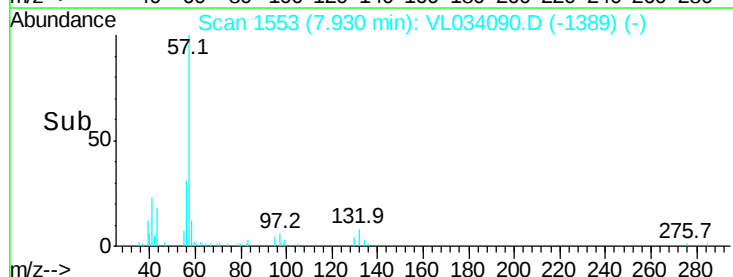
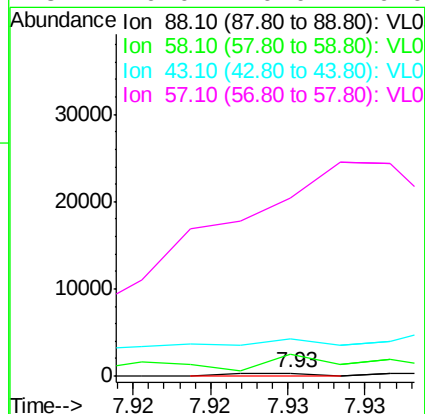
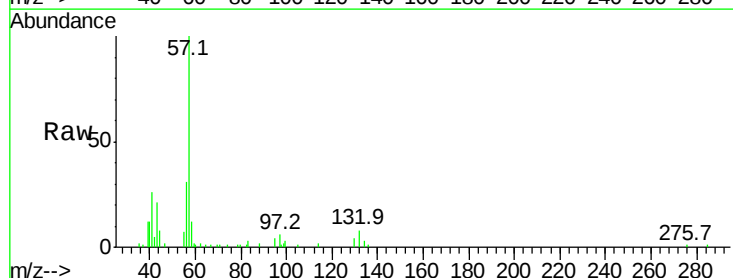
Ion Ratio Lower Upper

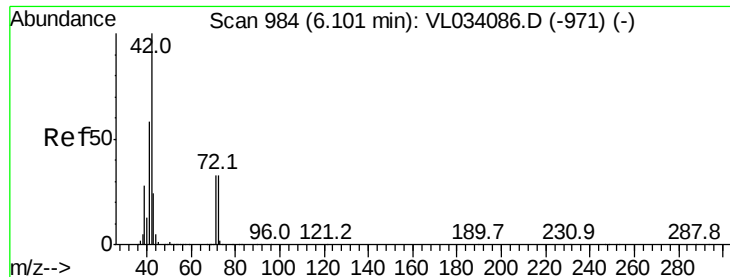
88 100

58 2839.7 113.0 169.4#

43 0.0 0.0 0.0

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 0.004 ppbv

RT: 6.09 min Scan# 981

Delta R.T. -0.01 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

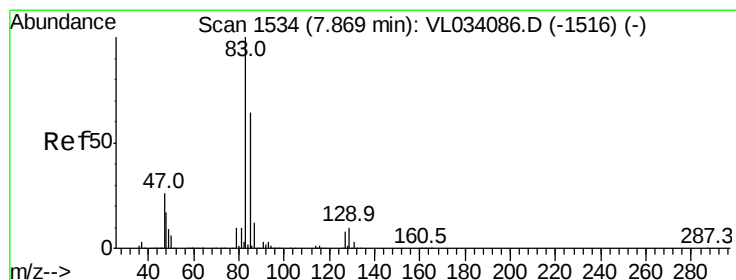
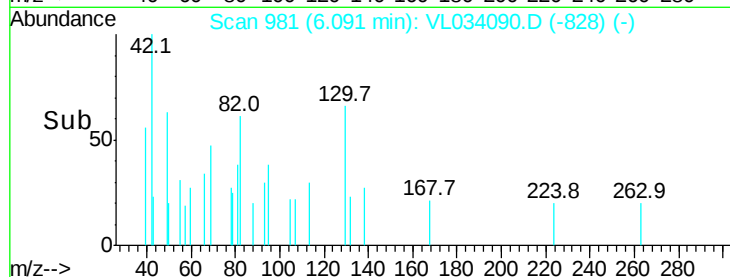
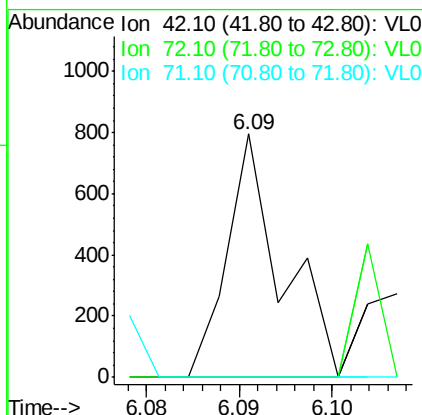
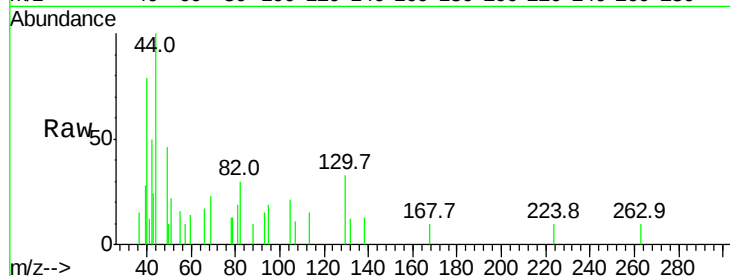
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:	42	Resp:	327
Ion	Ratio	Lower	Upper
42	100		
72	0.0	26.9	40.3#
71	0.0	26.5	39.7#



#42

Bromodichloromethane

Concen: 0.093 ppbv

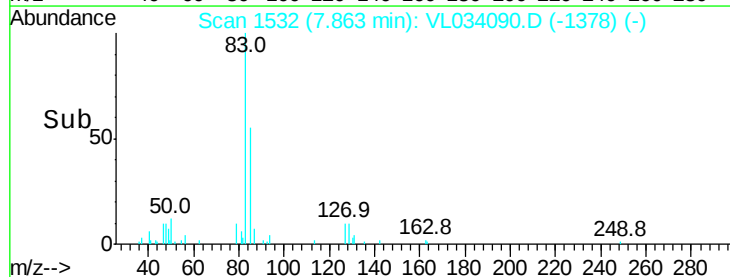
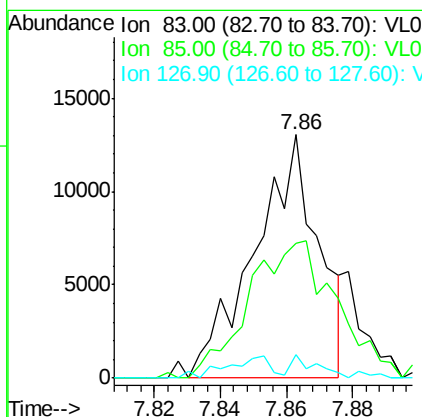
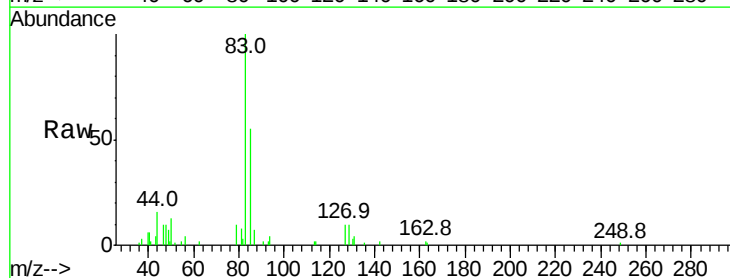
RT: 7.86 min Scan# 1532

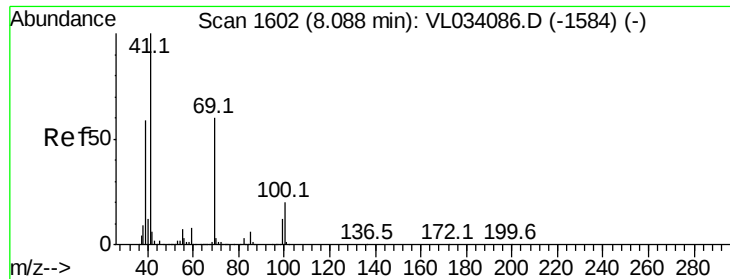
Delta R.T. -0.01 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Tgt Ion:	83	Resp:	17439
Ion	Ratio	Lower	Upper
83	100		
85	55.3	50.9	76.3
127	7.5	6.1	9.1

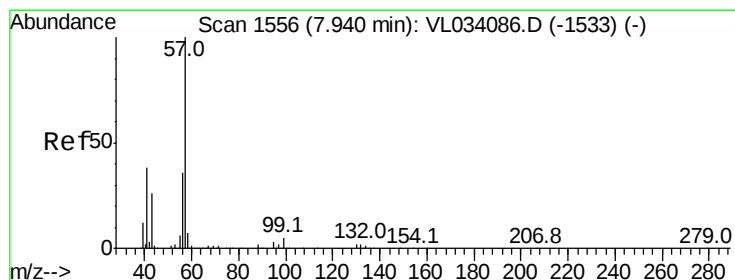
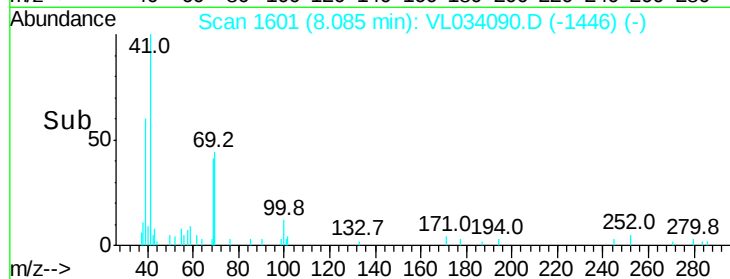
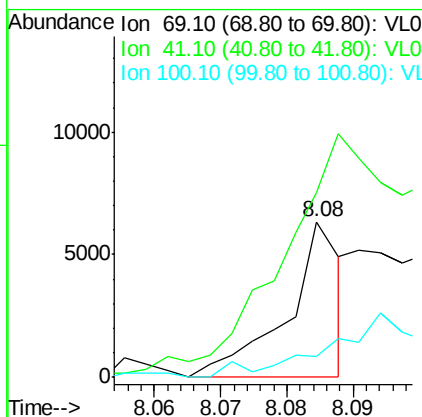
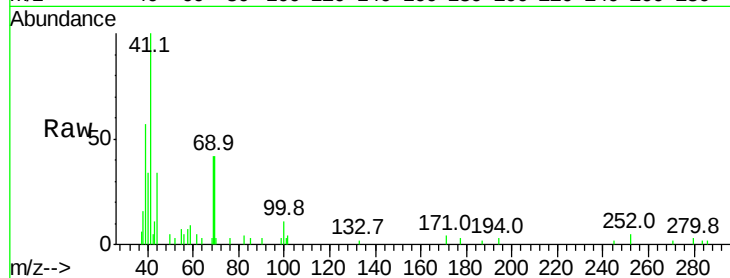




#43
Methyl Methacrylate
Concen: 0.046 ppbv
RT: 8.08 min Scan# 1601
Delta R.T. -0.00 min
Lab File: VL034090.D
Acq: 5 Aug 2019 15:16

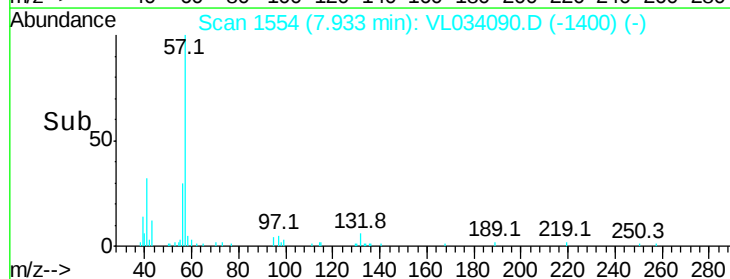
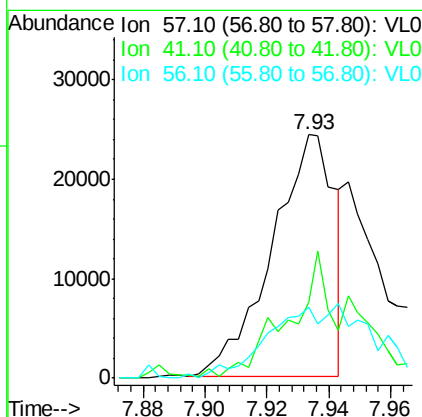
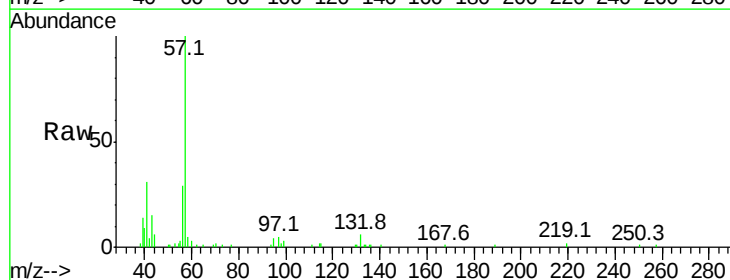
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

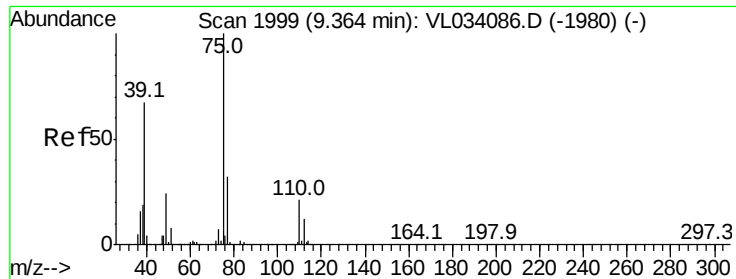
Tgt Ion: 69 Resp: 3596
Ion Ratio Lower Upper
69 100
41 0.0 132.9 199.3#
100 0.0 25.8 38.8#



#44
2,2,4-Trimethylpentane
Concen: 0.100 ppbv
RT: 7.93 min Scan# 1554
Delta R.T. -0.01 min
Lab File: VL034090.D
Acq: 5 Aug 2019 15:16

Tgt Ion: 57 Resp: 34244
Ion Ratio Lower Upper
57 100
41 56.2 29.2 43.8#
56 0.0 26.7 40.1#





#45

t-1,3-Dichloropropene

Concen: 0.002 ppbv

RT: 9.40 min Scan# 2009

Delta R.T. 0.03 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

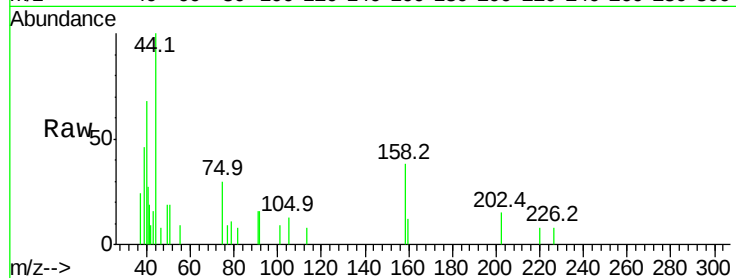
VSTDIC0.1

Tgt Ion: 75 Resp: 211

Ion Ratio Lower Upper

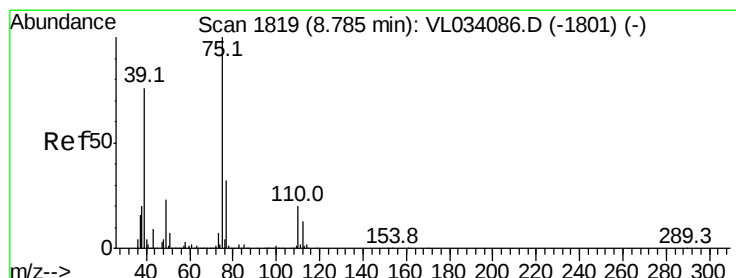
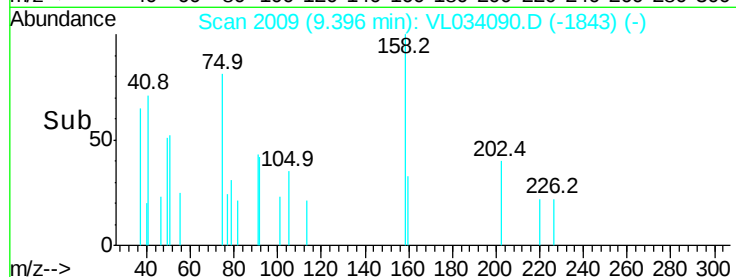
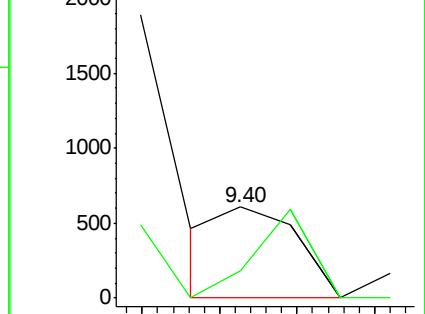
75 100

77 29.5 25.7 38.5



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.049 ppbv

RT: 8.77 min Scan# 1815

Delta R.T. -0.01 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

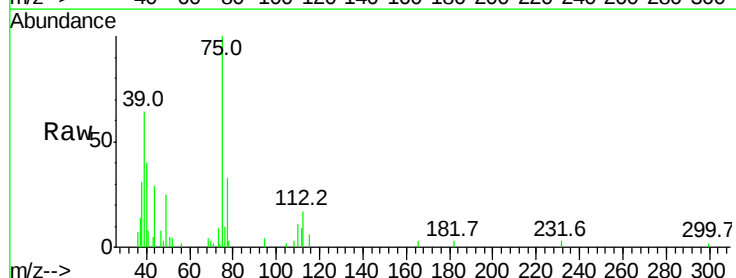
Tgt Ion: 75 Resp: 5505

Ion Ratio Lower Upper

75 100

39 22.2 61.0 91.4#

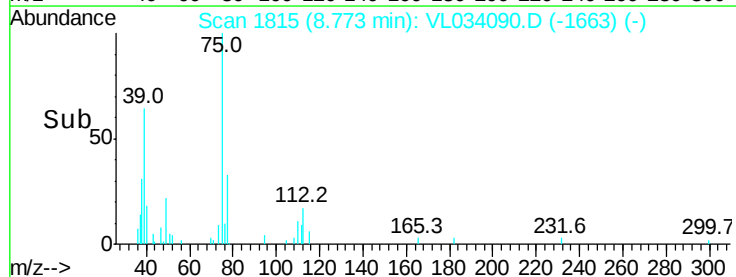
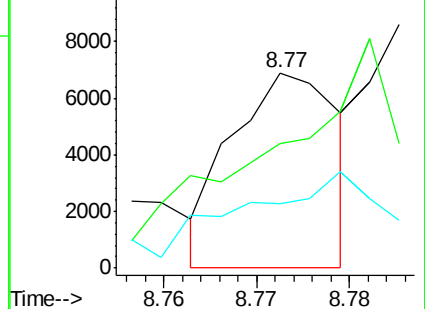
77 7.4 25.6 38.4#

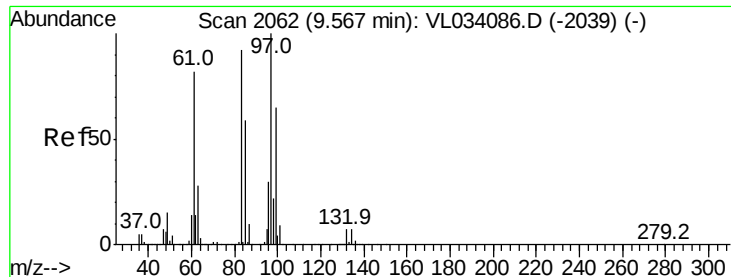


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 0.089 ppbv

RT: 9.56 min Scan# 2059

Delta R.T. -0.01 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 97 Resp: 7939

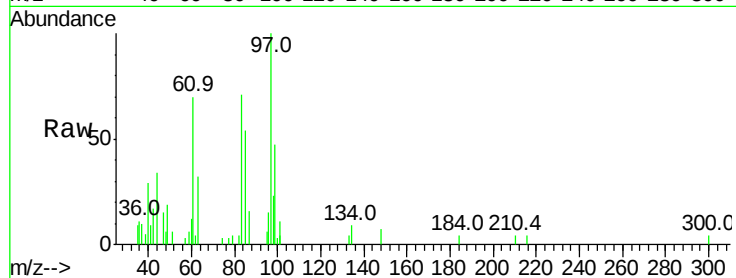
Ion Ratio Lower Upper

97 100

83 71.3 74.0 111.0#

85 48.8 47.1 70.7

99 47.1 51.9 77.9#

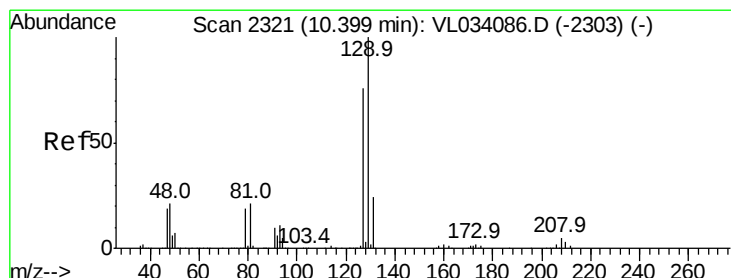
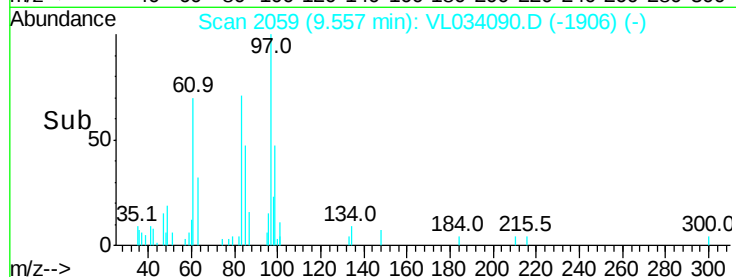
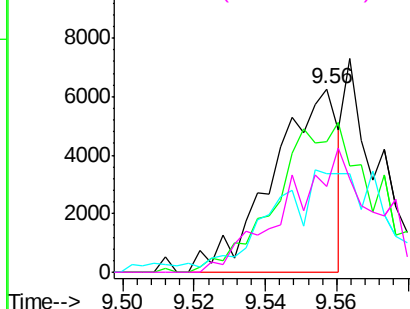


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 0.025 ppbv

RT: 10.39 min Scan# 2318

Delta R.T. -0.01 min

Lab File: VL034090.D

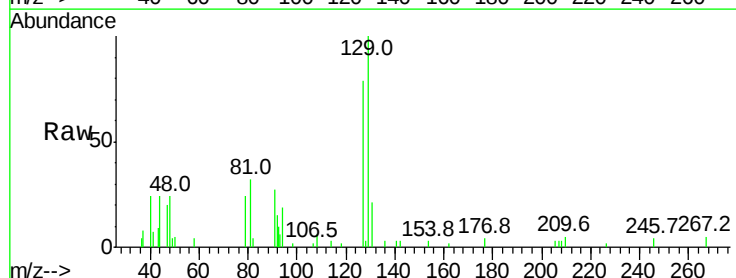
Acq: 5 Aug 2019 15:16

Tgt Ion: 129 Resp: 3705

Ion Ratio Lower Upper

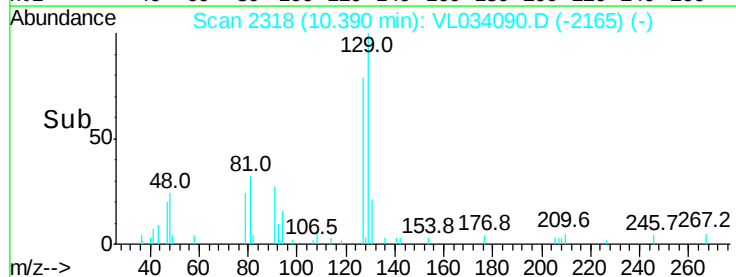
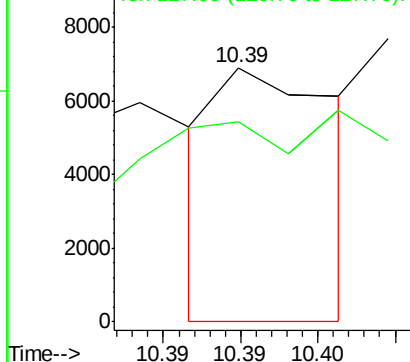
129 100

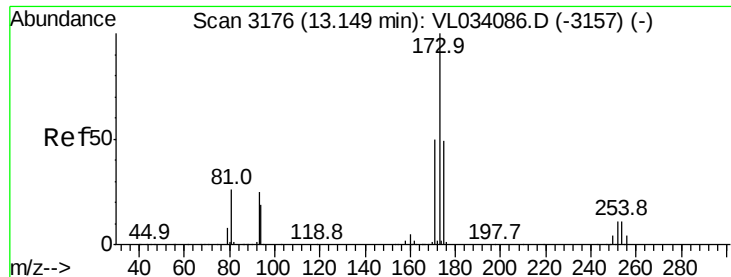
127 0.0 39.4 118.2#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.045 ppbv

RT: 13.14 min Scan# 3172

Delta R.T. -0.01 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

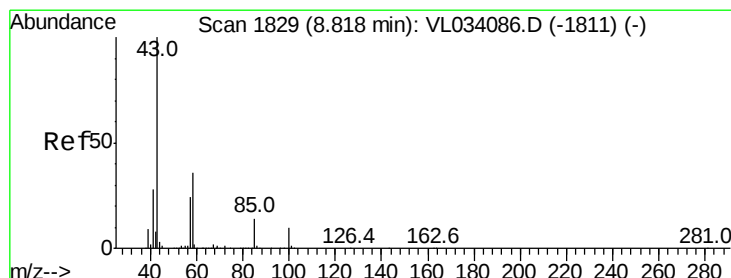
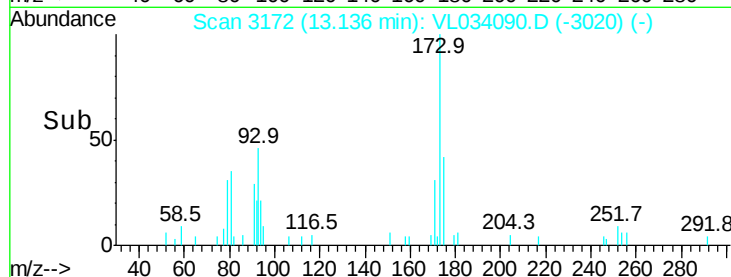
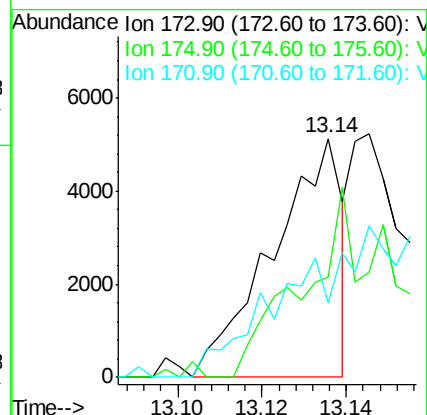
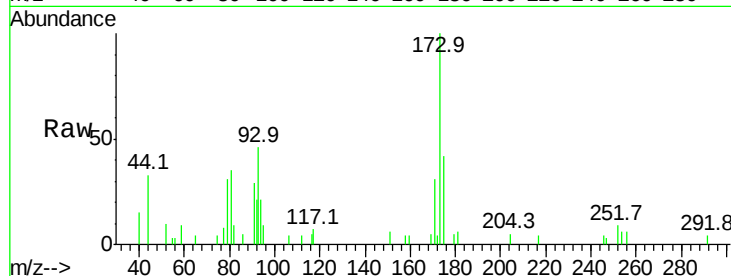
Tgt Ion:173 Resp: 5825

Ion Ratio Lower Upper

173 100

175 102.1 39.8 59.8#

171 0.0 42.7 64.1#



#50

4-Methyl-2-Pentanone

Concen: 0.001 ppbv

RT: 8.80 min Scan# 1823

Delta R.T. -0.02 min

Lab File: VL034090.D

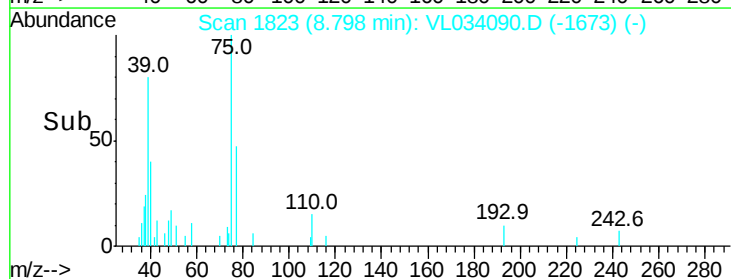
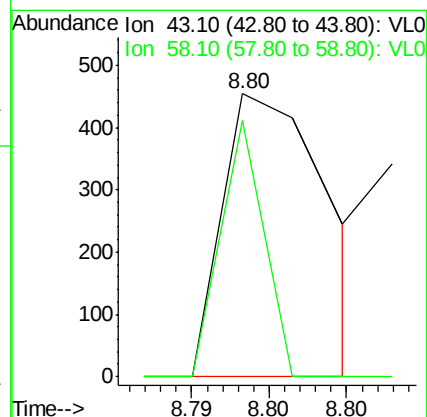
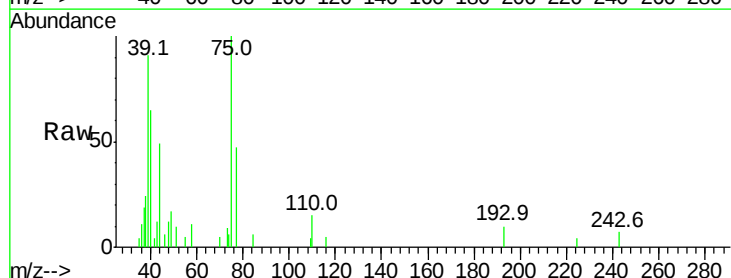
Acq: 5 Aug 2019 15:16

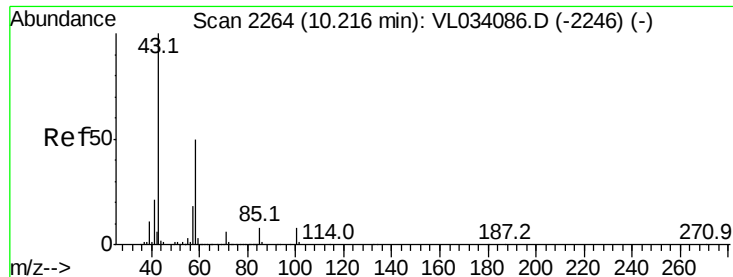
Tgt Ion: 43 Resp: 215

Ion Ratio Lower Upper

43 100

58 0.0 28.2 42.2#





#51

2-Hexanone

Concen: 0.002 ppbv

RT: 10.19 min Scan# 2257

Delta R.T. -0.02 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

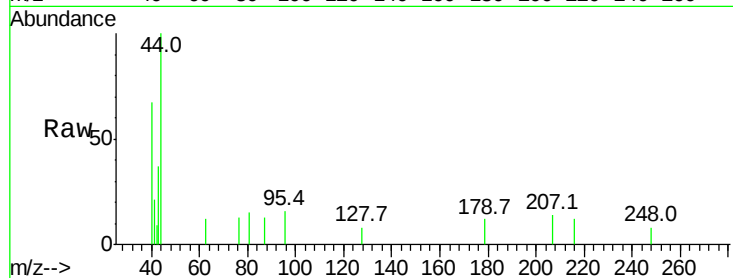
Tgt Ion: 43 Resp: 387

Ion Ratio Lower Upper

43 100

58 0.0 38.5 57.7#

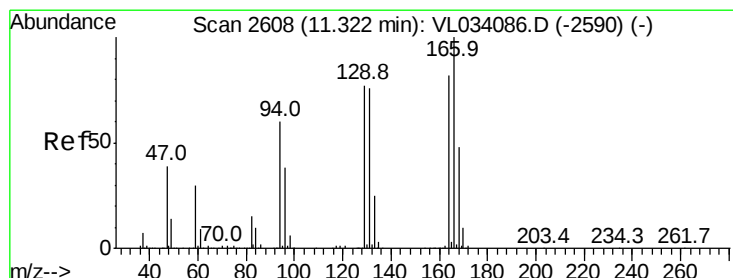
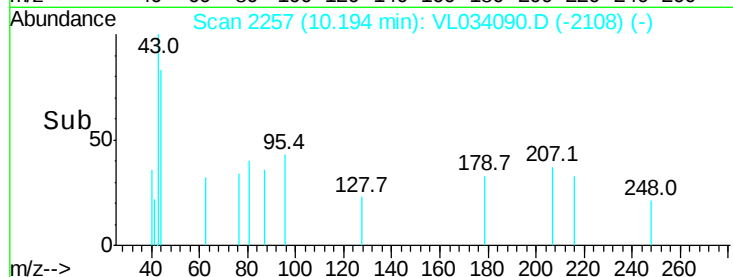
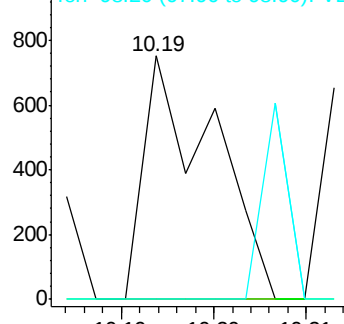
98 0.0 0.0 0.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 0.065 ppbv

RT: 11.32 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Tgt Ion: 164 Resp: 4347

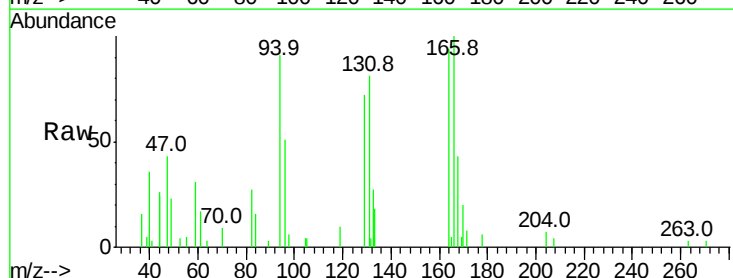
Ion Ratio Lower Upper

164 100

166 81.3 96.8 145.2#

129 0.1 74.9 112.3#

131 61.3 74.2 111.2#

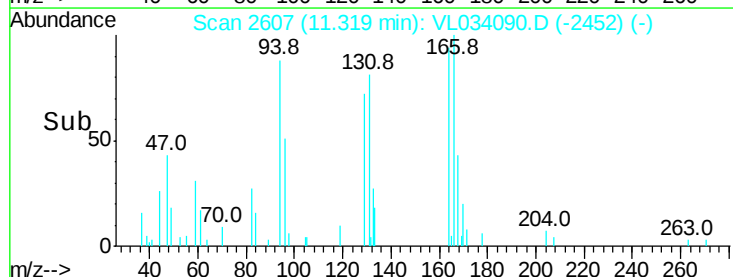
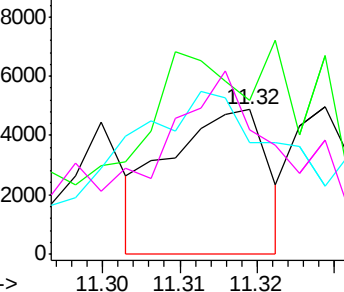


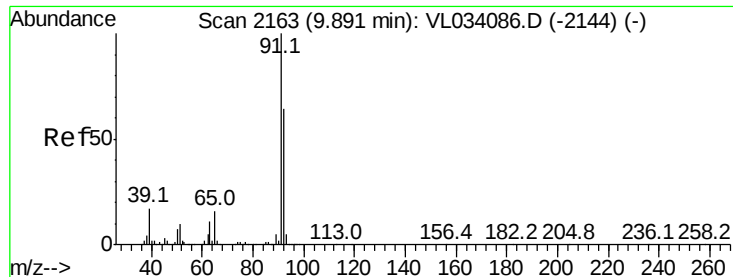
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.145 ppbv

RT: 9.89 min Scan# 2163

Delta R.T. 0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

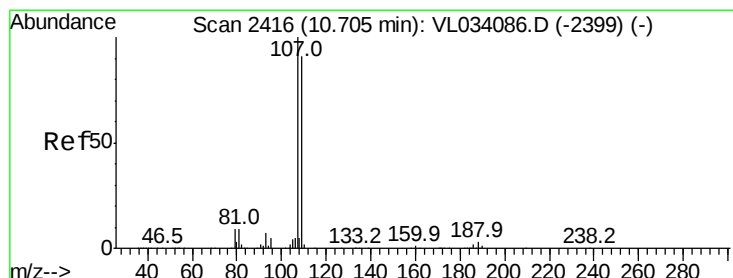
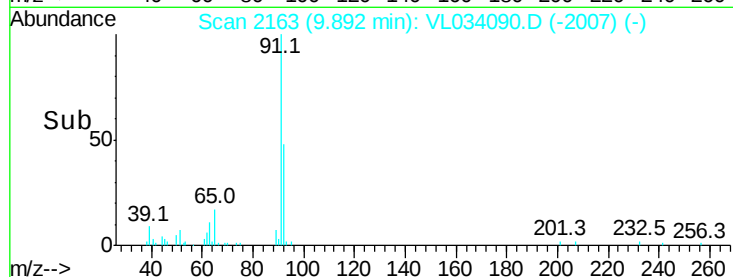
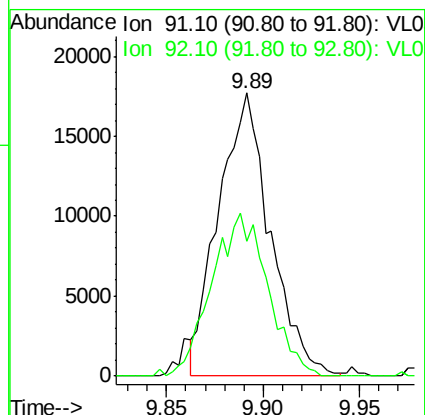
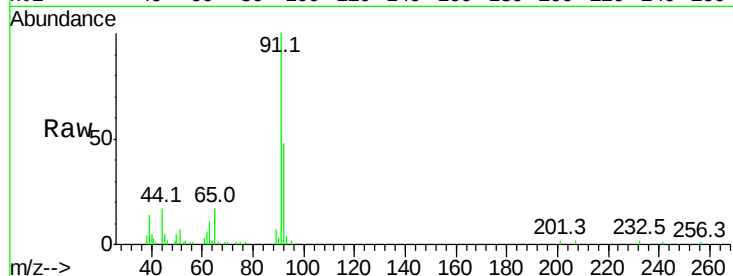
VSTDIC0.1

Tgt Ion: 91 Resp: 32894

Ion Ratio Lower Upper

91 100

92 62.3 50.3 75.5



#54

1,2-Dibromoethane

Concen: 0.056 ppbv

RT: 10.70 min Scan# 2415

Delta R.T. -0.00 min

Lab File: VL034090.D

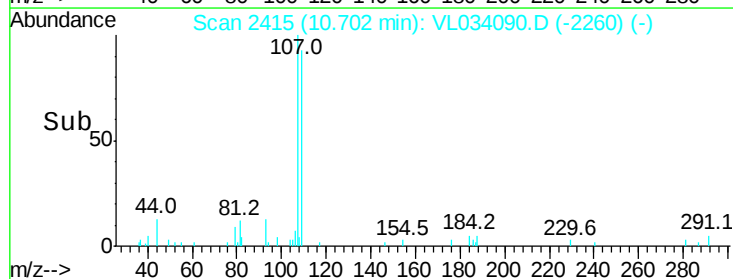
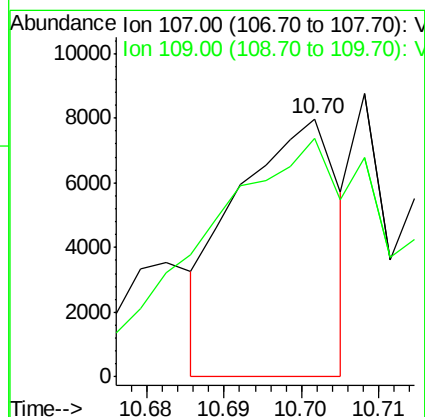
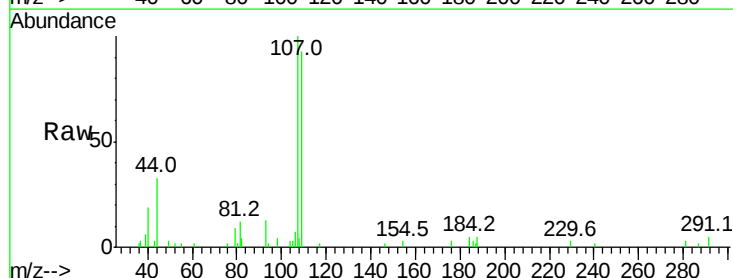
Acq: 5 Aug 2019 15:16

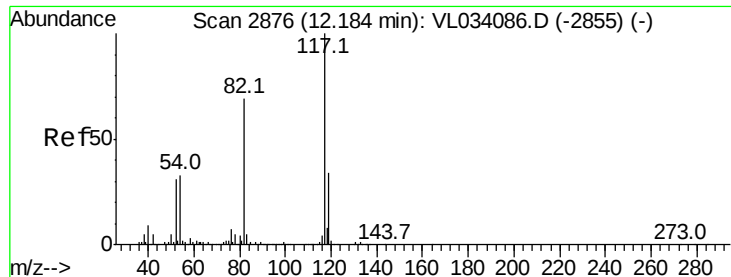
Tgt Ion: 107 Resp: 7358

Ion Ratio Lower Upper

107 100

109 74.4 72.9 109.3

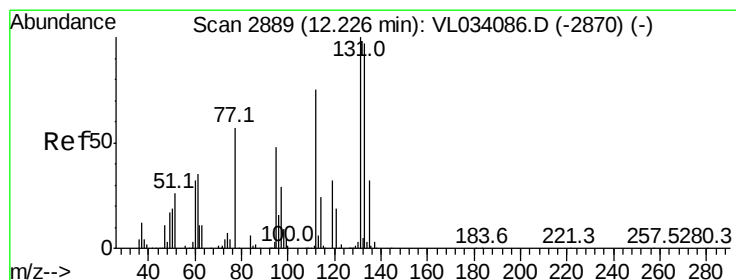
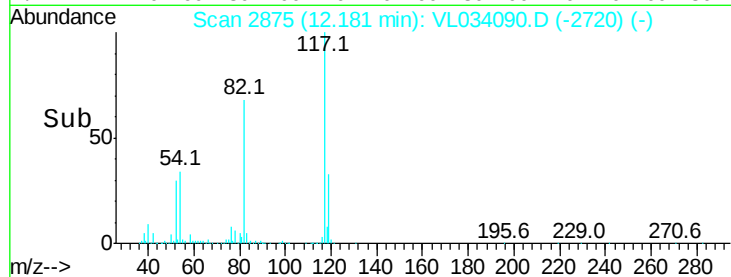
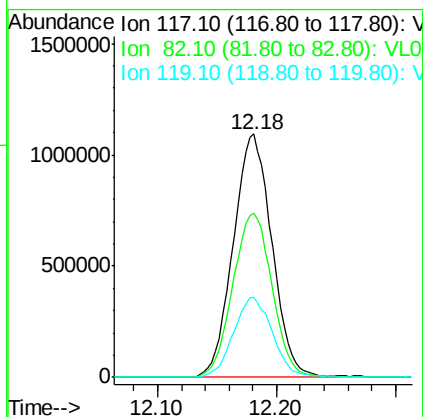
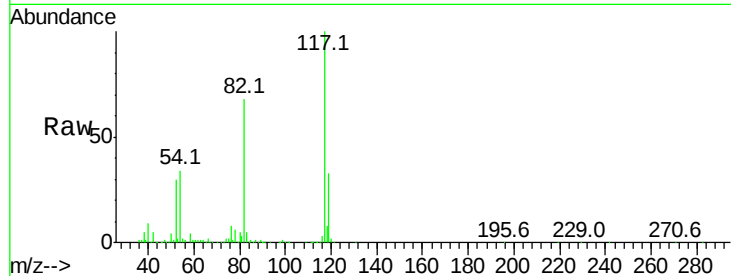




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.18 min Scan# 2875
Delta R.T. -0.00 min
Lab File: VL034090.D
Acq: 5 Aug 2019 15:16

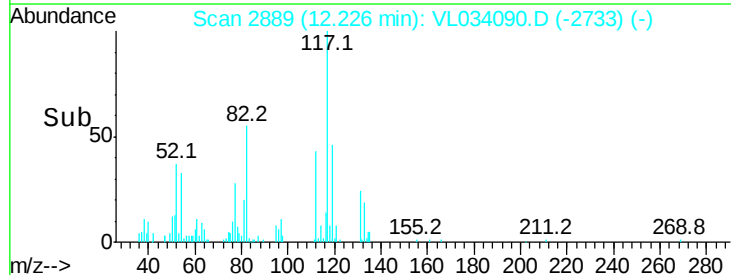
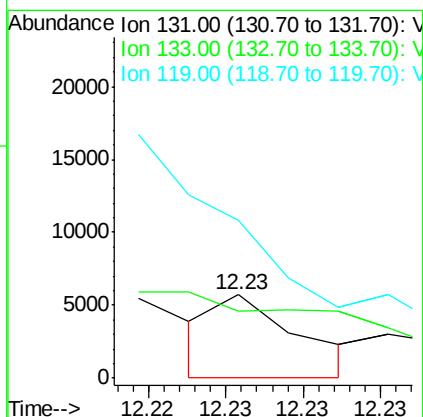
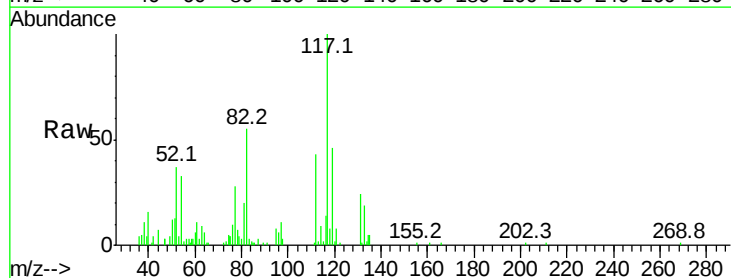
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

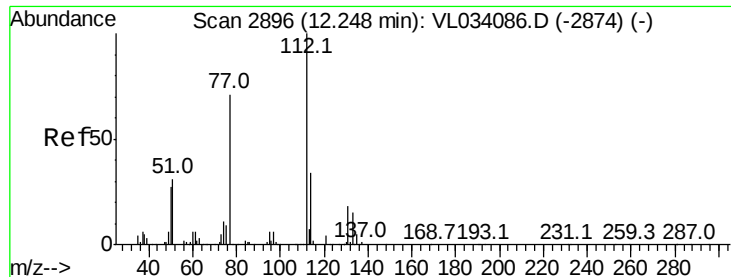
Tgt Ion:117 Resp: 2451170
Ion Ratio Lower Upper
117 100
82 69.1 52.2 78.4
119 33.4 44.8 67.2#



#56
1,1,1,2-Tetrachloroethane
Concen: 0.020 ppbv
RT: 12.23 min Scan# 2889
Delta R.T. 0.00 min
Lab File: VL034090.D
Acq: 5 Aug 2019 15:16

Tgt Ion:131 Resp: 2140
Ion Ratio Lower Upper
131 100
133 566.2 76.5 114.7#
119 0.0 114.7 172.1#





#57

Chlorobenzene

Concen: 0.047 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. -0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

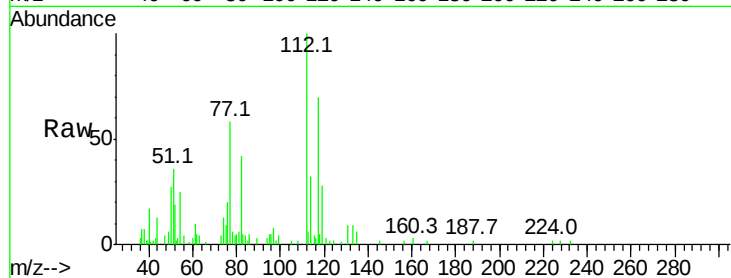
Tgt Ion: 112 Resp: 9471

Ion Ratio Lower Upper

112 100

77 42.0 57.8 86.6#

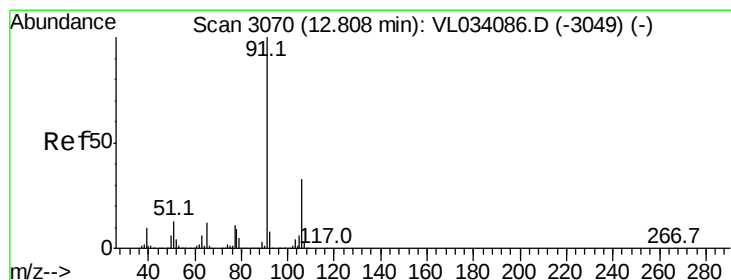
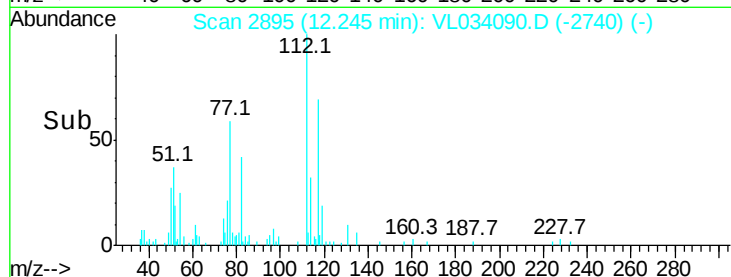
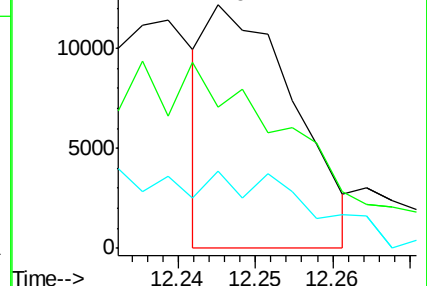
114 20.8 30.3 37.1#



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: 0.052 ppbv

RT: 12.81 min Scan# 3071

Delta R.T. 0.00 min

Lab File: VL034090.D

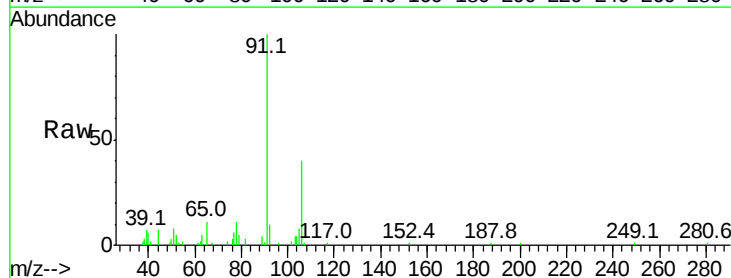
Acq: 5 Aug 2019 15:16

Tgt Ion: 91 Resp: 16945

Ion Ratio Lower Upper

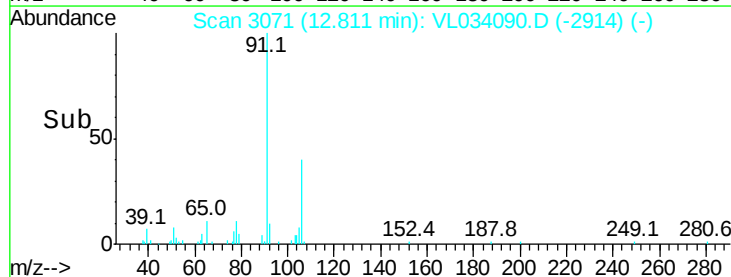
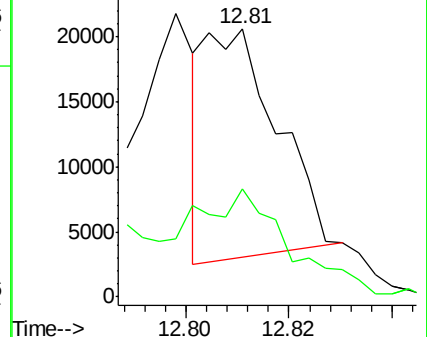
91 100

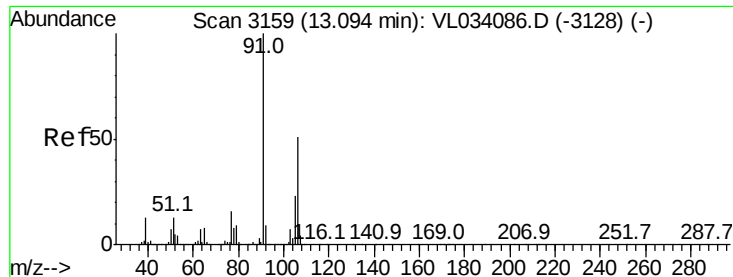
106 37.8 26.0 39.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.091 ppbv

RT: 13.09 min Scan# 3157

Delta R.T. -0.01 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

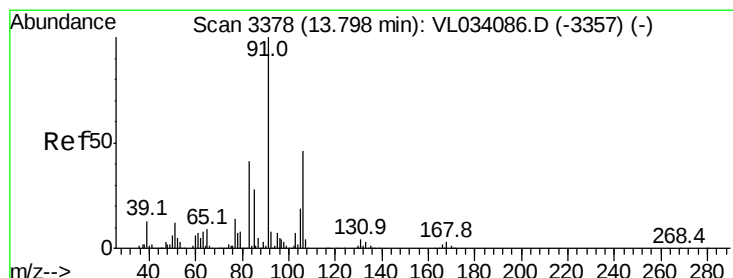
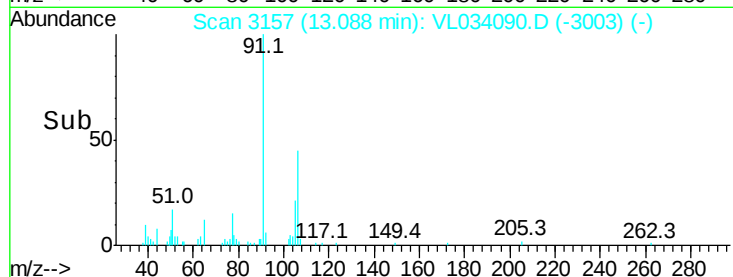
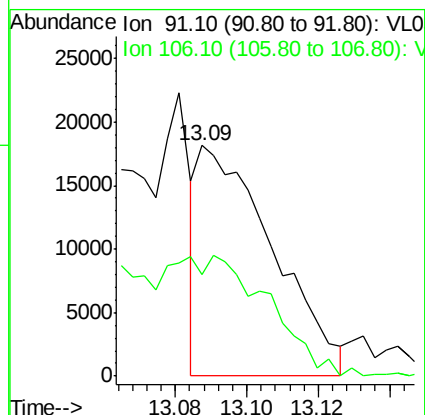
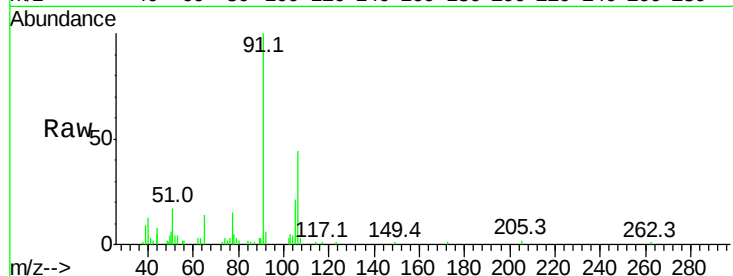
VSTDIC0.1

Tgt Ion: 91 Resp: 26243

Ion Ratio Lower Upper

91 100

106 131.6 38.7 58.1#



#60

o-Xylene

Concen: 0.059 ppbv

RT: 13.79 min Scan# 3377

Delta R.T. -0.00 min

Lab File: VL034090.D

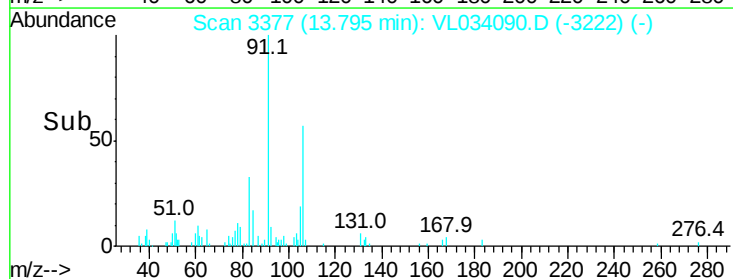
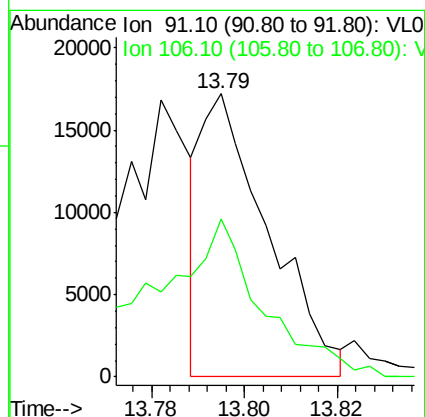
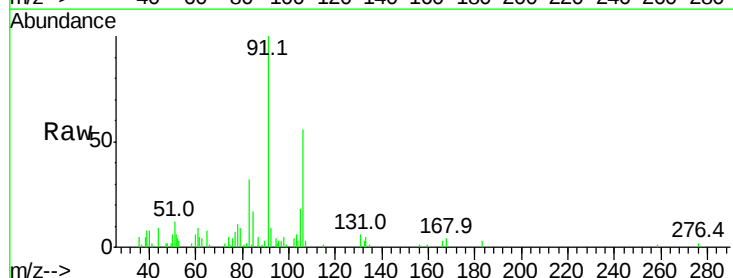
Acq: 5 Aug 2019 15:16

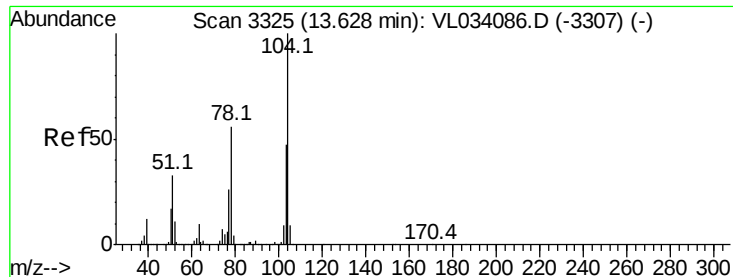
Tgt Ion: 91 Resp: 17135

Ion Ratio Lower Upper

91 100

106 99.0 22.6 67.7#





#61

Styrene

Concen: 0.137 ppbv

RT: 13.62 min Scan# 3323

Delta R.T. -0.01 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

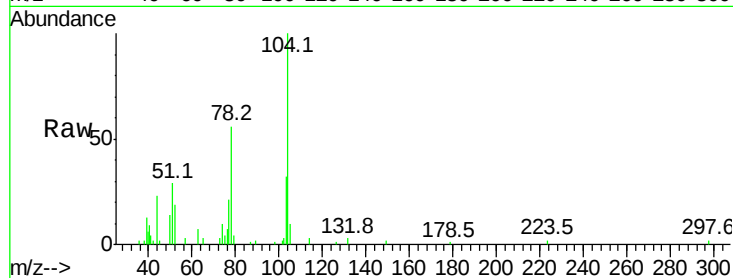
Tgt Ion:104 Resp: 26053

Ion Ratio Lower Upper

104 100

78 59.8 44.2 66.4

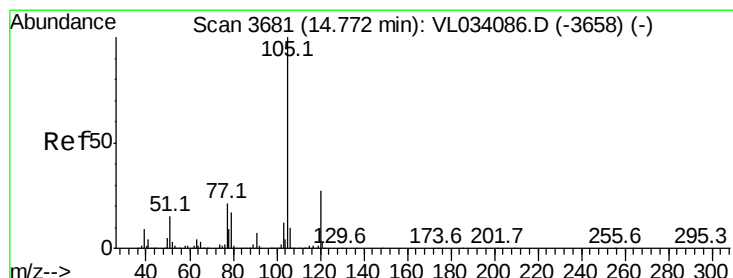
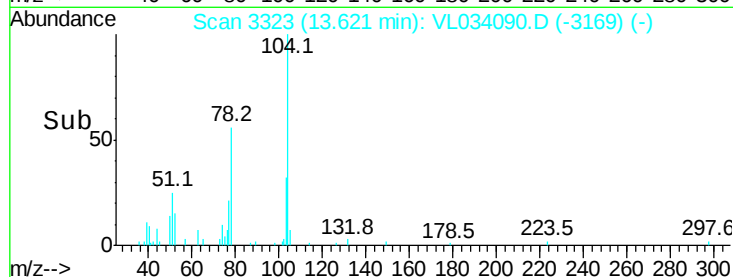
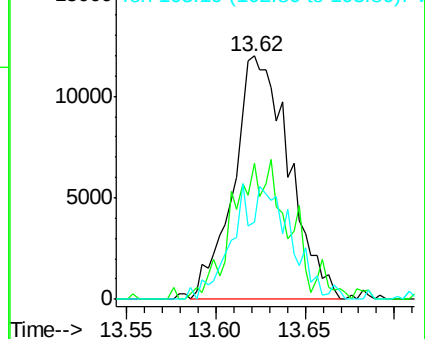
103 47.9 38.3 57.5



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: 0.120 ppbv

RT: 14.77 min Scan# 3679

Delta R.T. -0.01 min

Lab File: VL034090.D

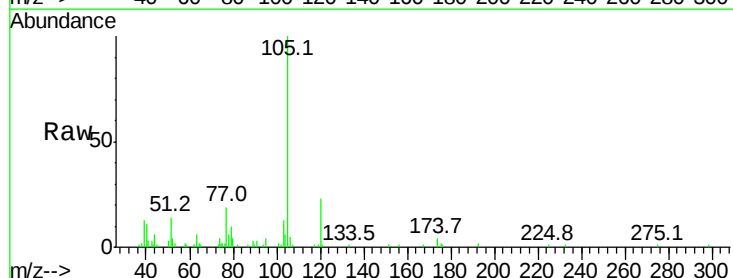
Acq: 5 Aug 2019 15:16

Tgt Ion:105 Resp: 45623

Ion Ratio Lower Upper

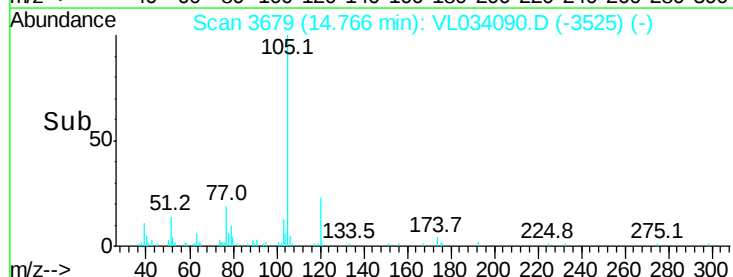
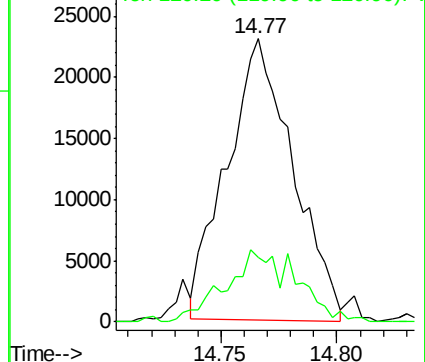
105 100

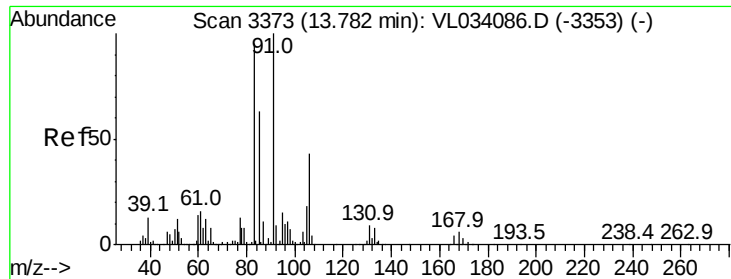
120 27.6 21.4 32.2



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: 0.060 ppbv

RT: 13.77 min Scan# 3370

Delta R.T. -0.01 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

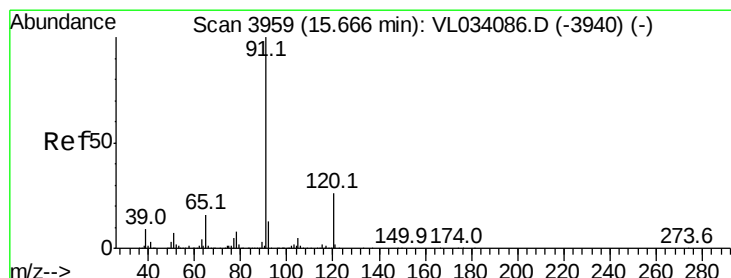
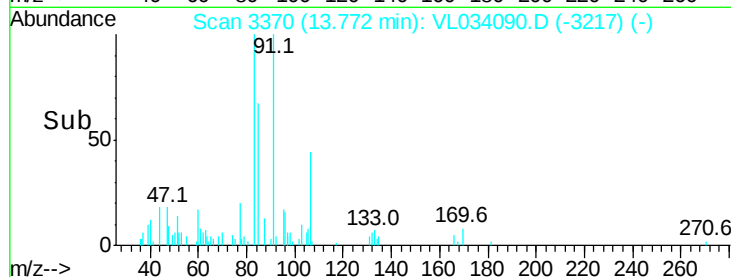
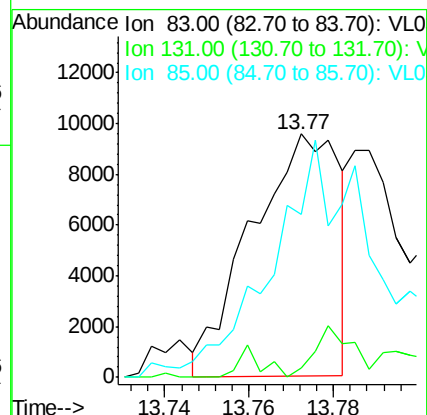
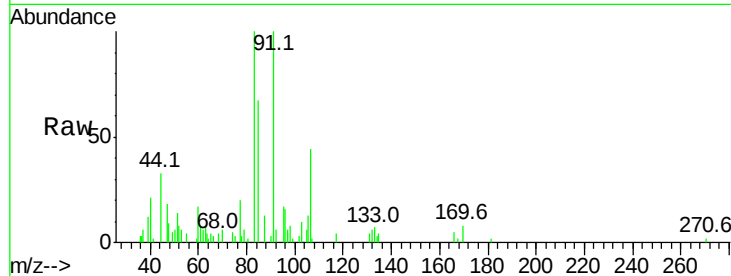
Tgt Ion: 83 Resp: 13805

Ion Ratio Lower Upper

83 100

131 20.3 4.6 13.8#

85 122.0 32.6 97.8#



#64

n-propylbenzene

Concen: 0.120 ppbv

RT: 15.66 min Scan# 3958

Delta R.T. -0.00 min

Lab File: VL034090.D

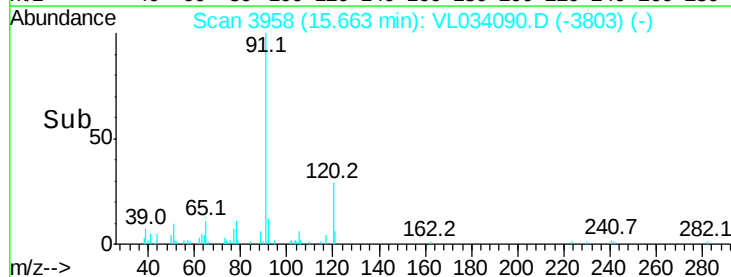
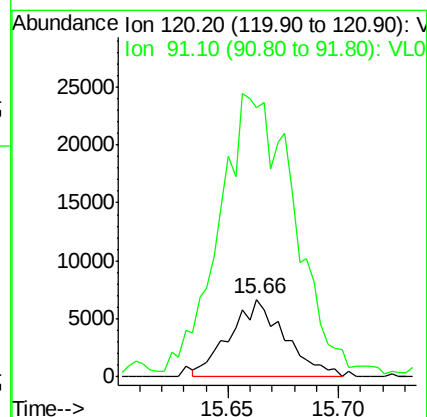
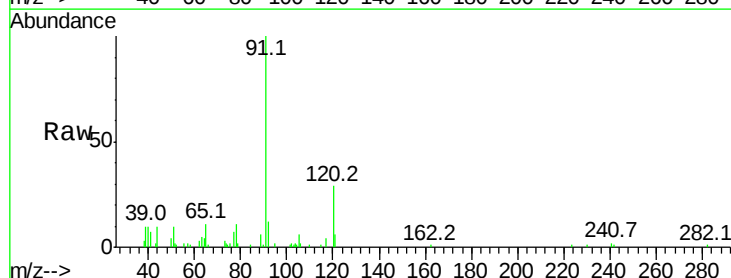
Acq: 5 Aug 2019 15:16

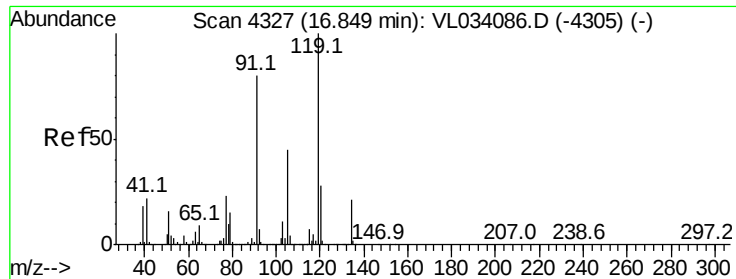
Tgt Ion: 120 Resp: 11601

Ion Ratio Lower Upper

120 100

91 509.4 359.7 539.5





#65

tert-Butylbenzene

Concen: 0.061 ppbv

RT: 16.85 min Scan# 4326

Delta R.T. -0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

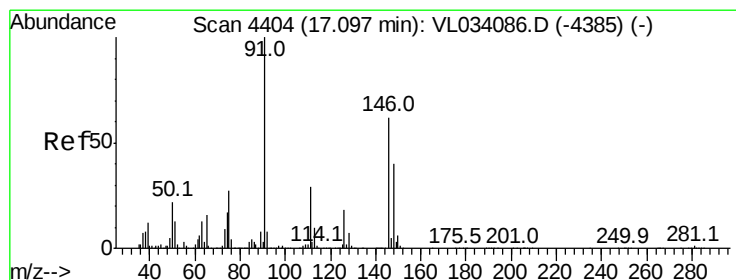
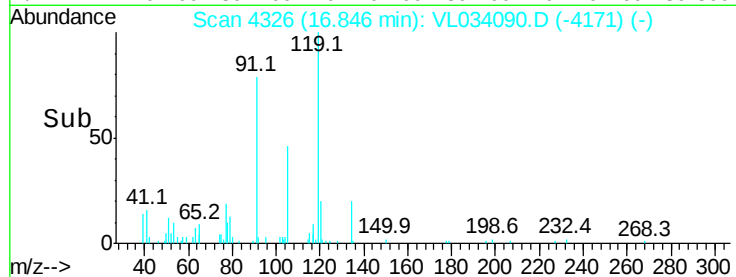
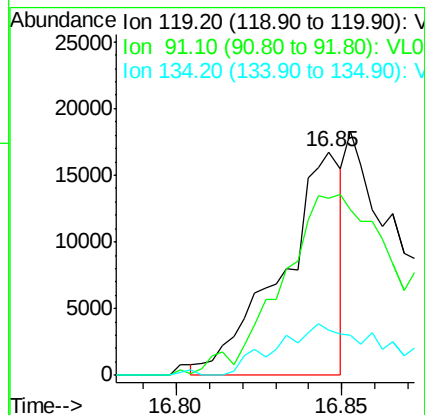
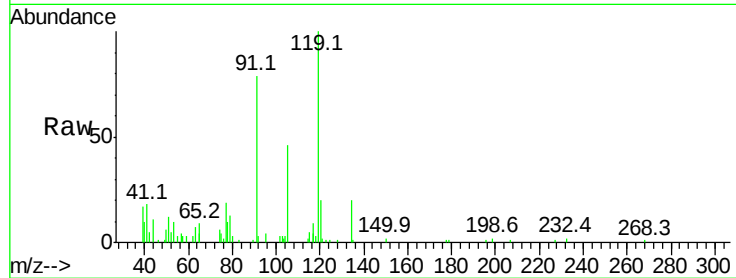
Tgt Ion: 119 Resp: 21033

Ion Ratio Lower Upper

119 100

91 0.0 67.6 101.4#

134 40.9 16.0 24.0#



#66

Benzyl Chloride

Concen: 0.022 ppbv

RT: 17.09 min Scan# 4402

Delta R.T. -0.01 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

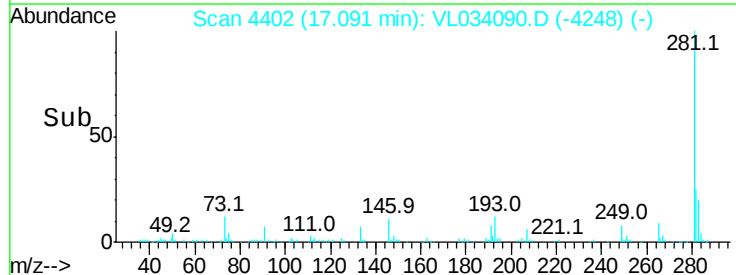
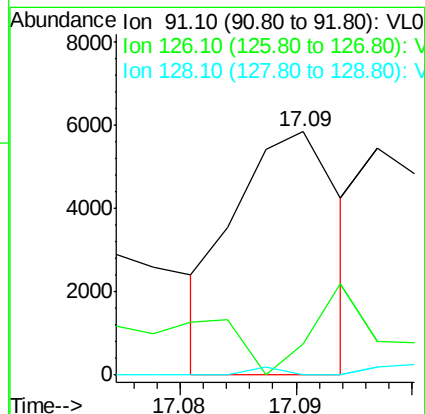
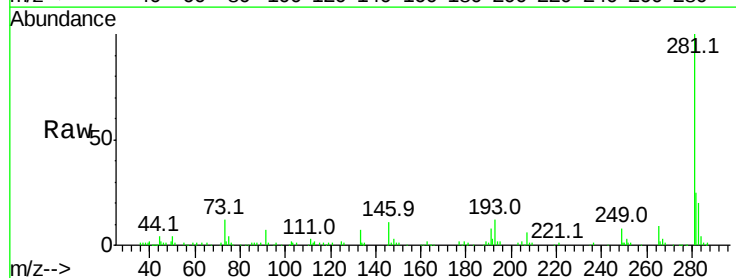
Tgt Ion: 91 Resp: 3676

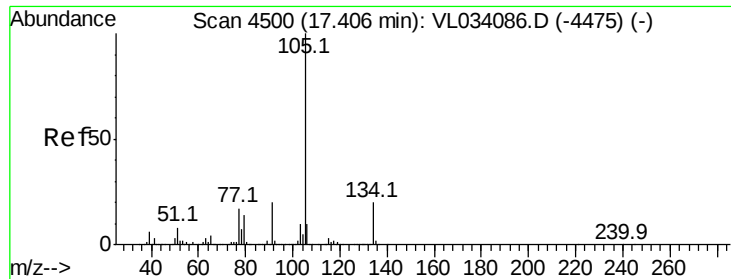
Ion Ratio Lower Upper

91 100

126 0.0 14.8 22.2#

128 0.0 4.8 7.2#

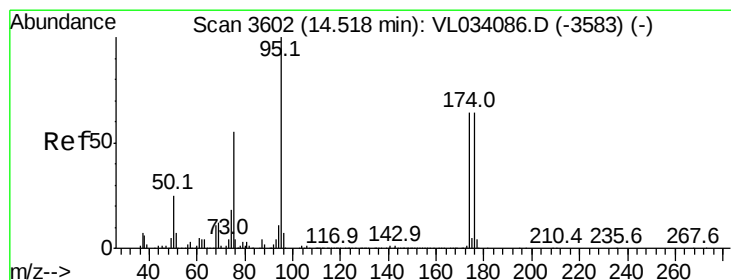
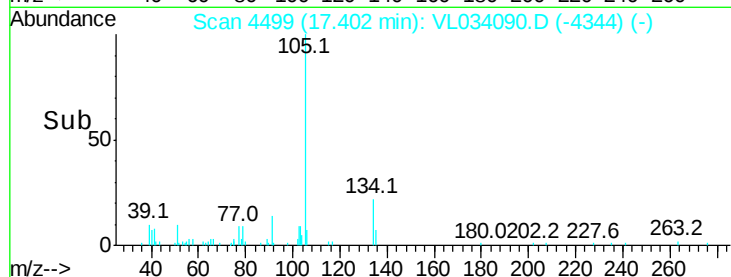
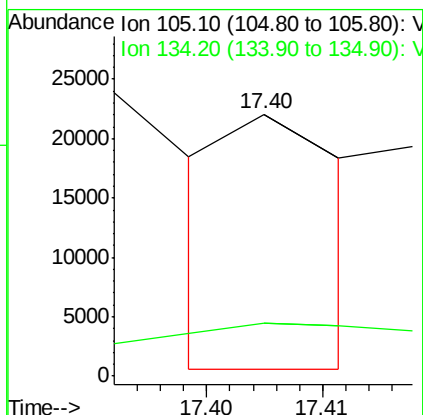
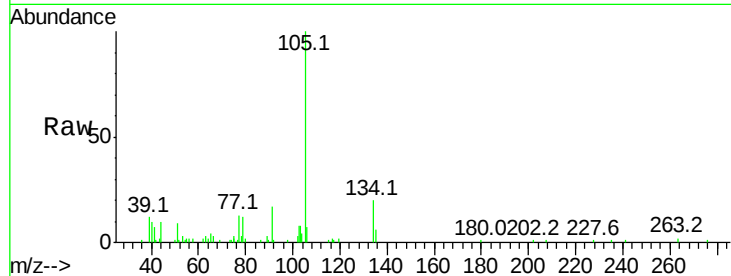




#67
 sec-Butylbenzene
 Concen: 0.015 ppbv
 RT: 17.40 min Scan# 4499
 Delta R.T. -0.00 min
 Lab File: VL034090.D
 Acq: 5 Aug 2019 15:16

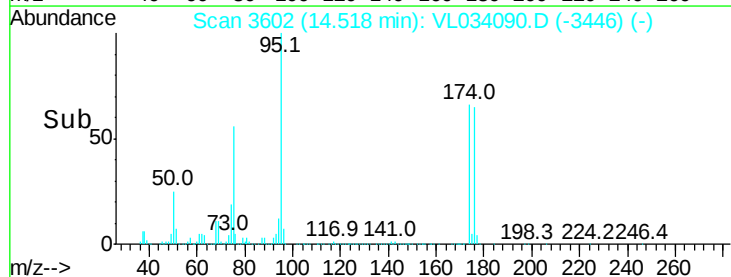
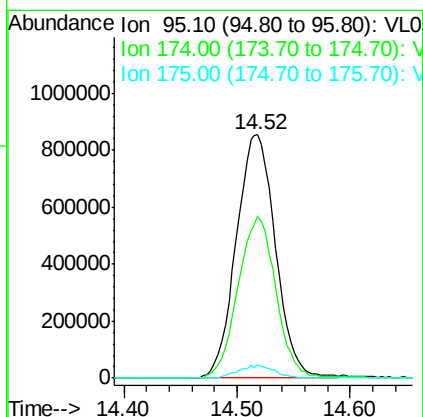
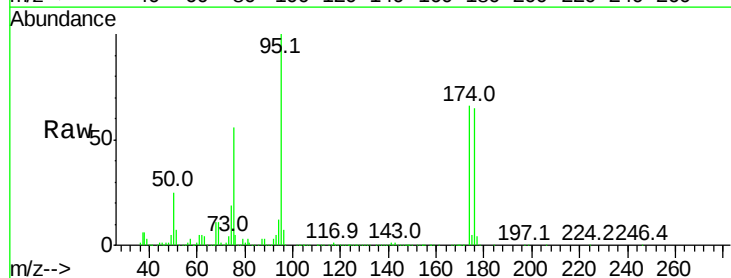
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

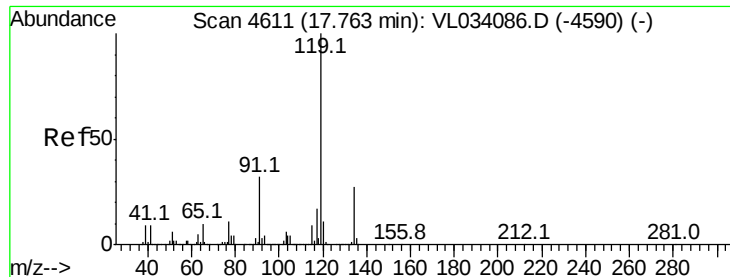
Tgt Ion: 105 Resp: 7576
 Ion Ratio Lower Upper
 105 100
 134 137.9 15.4 23.2#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.512 ppbv
 RT: 14.52 min Scan# 3602
 Delta R.T. 0.00 min
 Lab File: VL034090.D
 Acq: 5 Aug 2019 15:16

Tgt Ion: 95 Resp: 2060136
 Ion Ratio Lower Upper
 95 100
 174 65.0 53.0 79.6
 175 5.0 4.2 6.2

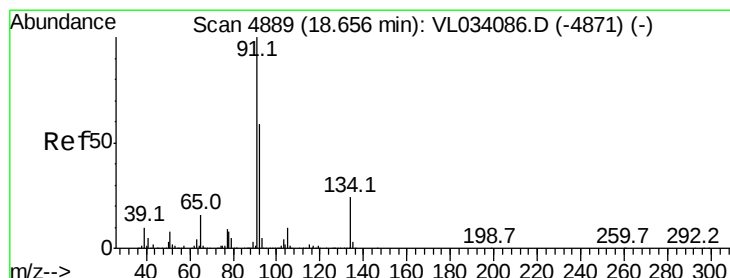
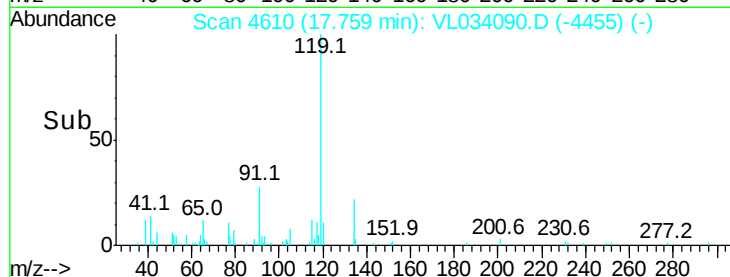
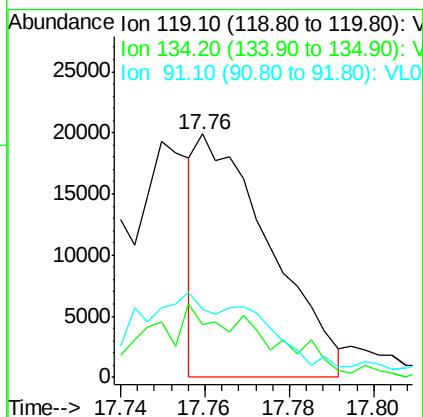
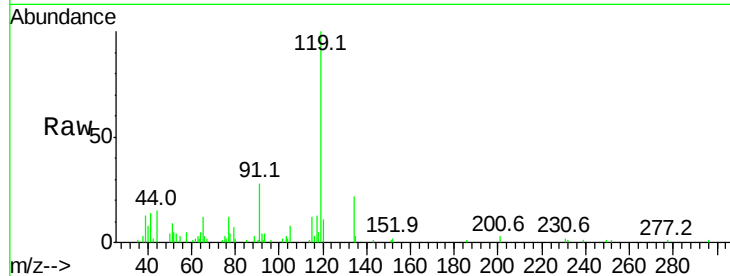




#69
 p-Isopropyltoluene
 Concen: 0.060 ppbv
 RT: 17.76 min Scan# 4610
 Delta R.T. -0.00 min
 Lab File: VL034090.D
 Acq: 5 Aug 2019 15:16

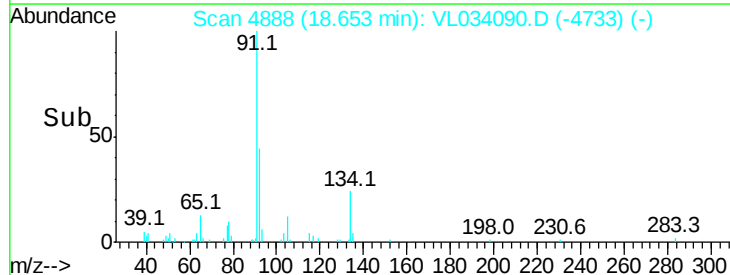
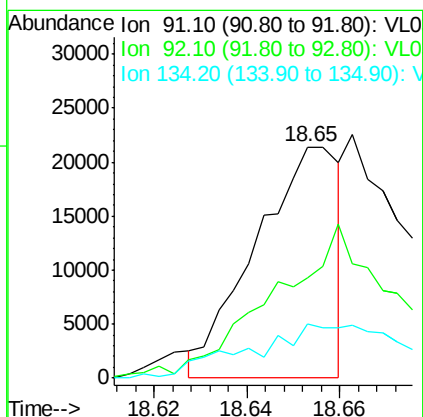
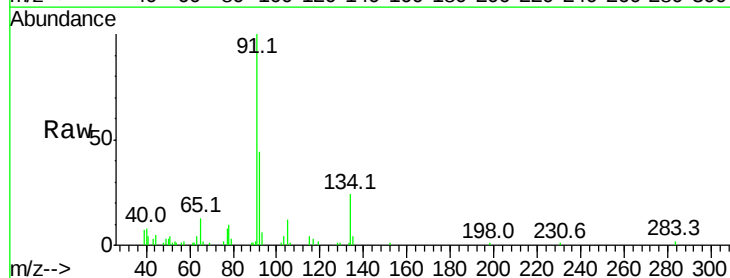
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

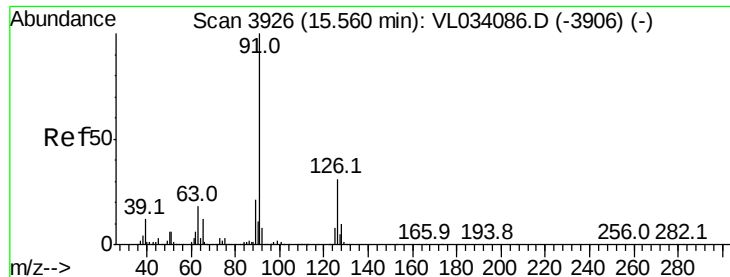
Tgt Ion	Ratio	Lower	Upper
119	100		
134	53.6	21.3	31.9#
91	71.8	25.4	38.0#



#70
 n-Butylbenzene
 Concen: 0.062 ppbv
 RT: 18.65 min Scan# 4888
 Delta R.T. -0.00 min
 Lab File: VL034090.D
 Acq: 5 Aug 2019 15:16

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	45.9	68.9#
134	49.7	19.0	28.4#





#71

2-Chlorotoluene

Concen: 0.117 ppbv

RT: 15.56 min Scan# 3926

Delta R.T. 0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

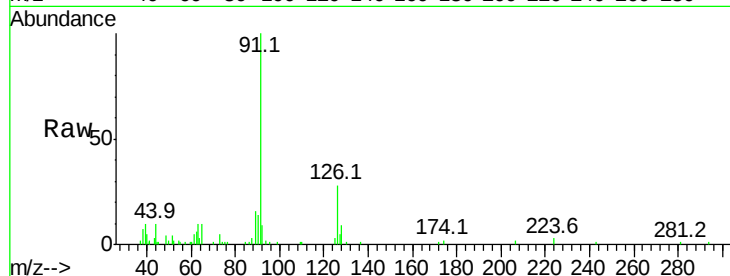
VSTDIC0.1

Tgt Ion: 91 Resp: 32961

Ion Ratio Lower Upper

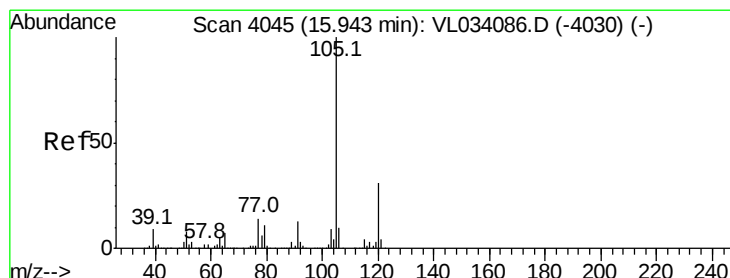
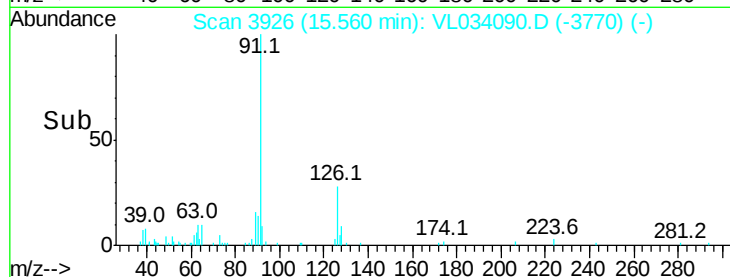
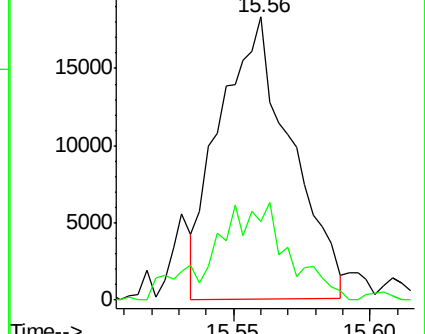
91 100

126 37.8 12.2 48.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.055 ppbv

RT: 15.93 min Scan# 4042

Delta R.T. -0.01 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Tgt Ion: 105 Resp: 17842

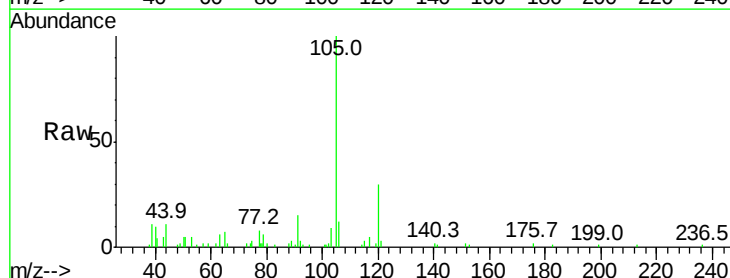
Ion Ratio Lower Upper

105 100

120 0.0 24.2 36.2#

91 0.0 10.5 15.7#

77 0.0 11.9 17.9#

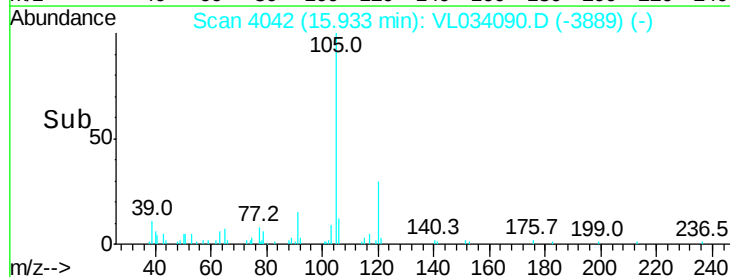
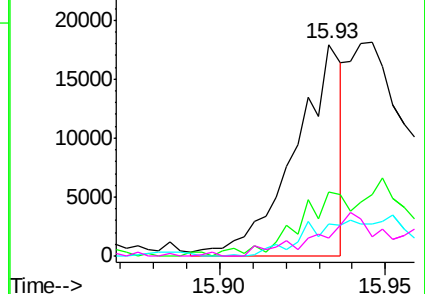


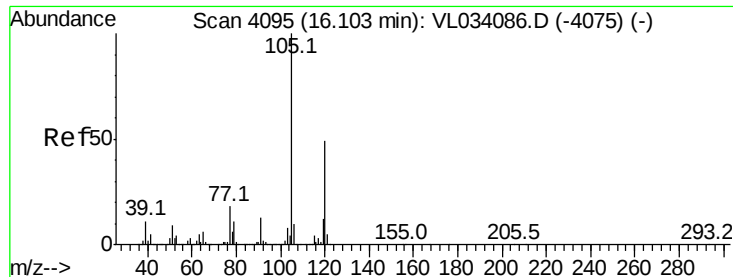
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 0.085 ppbv

RT: 16.10 min Scan# 4094

Delta R.T. -0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

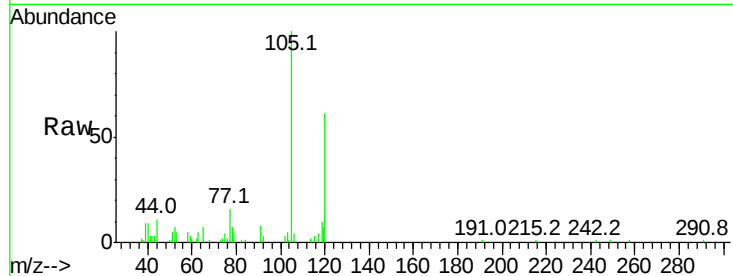
VSTDIC0.1

Tgt Ion:105 Resp: 27141

Ion Ratio Lower Upper

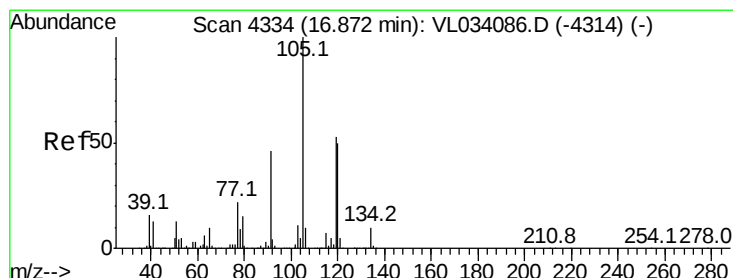
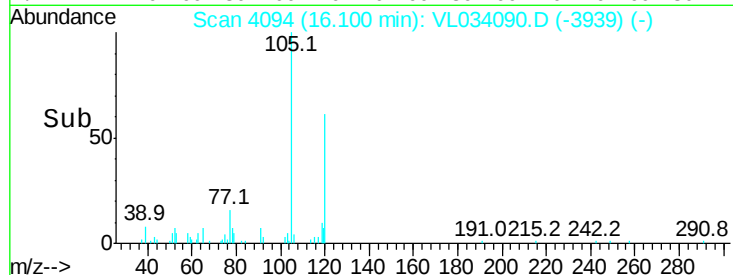
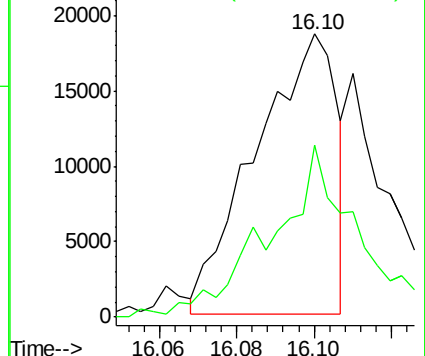
105 100

120 60.1 39.0 58.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.069 ppbv

RT: 16.86 min Scan# 4331

Delta R.T. -0.01 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Tgt Ion:105 Resp: 24433

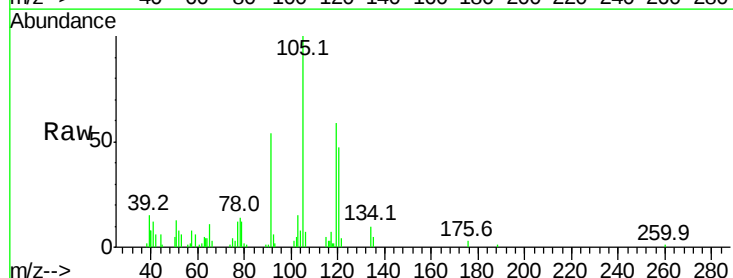
Ion Ratio Lower Upper

105 100

120 41.2 40.2 60.4

91 24.9 38.1 57.1#

77 7.3 17.8 26.8#

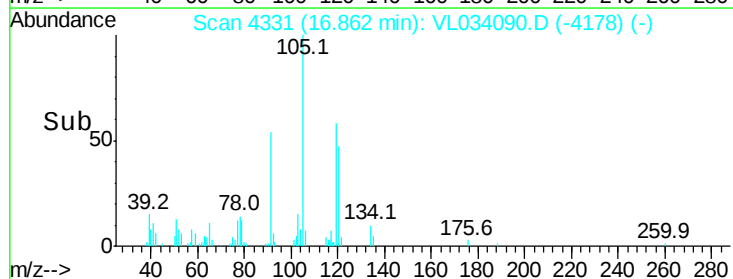
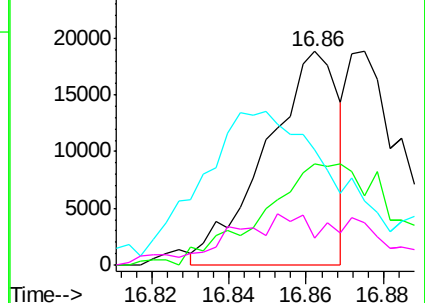


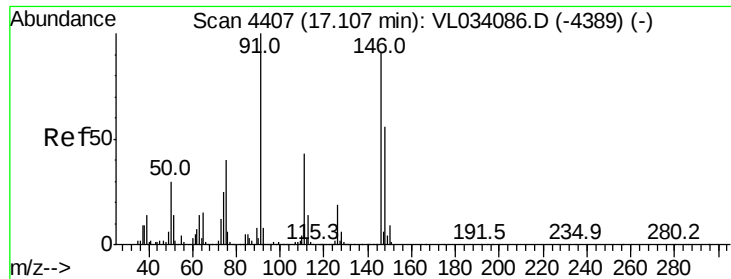
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 0.030 ppbv

RT: 17.10 min Scan# 4404

Delta R.T. -0.01 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:146 Resp: 6392

Ion Ratio Lower Upper

146 100

111 0.0 23.8 71.5#

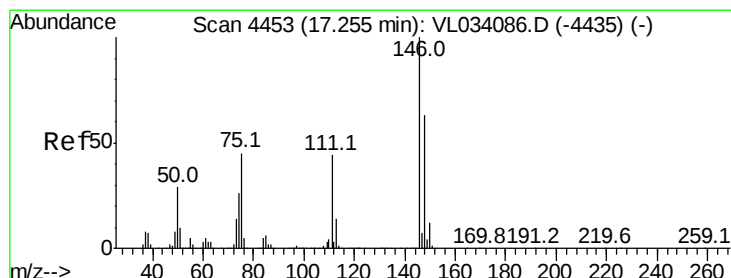
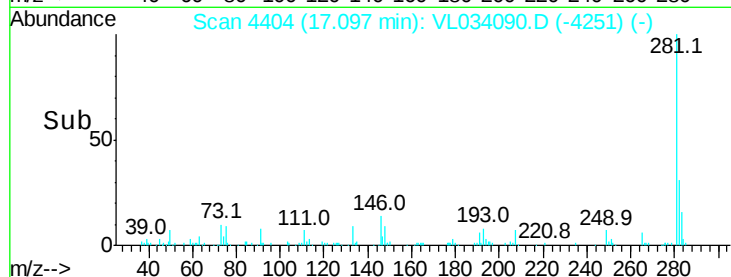
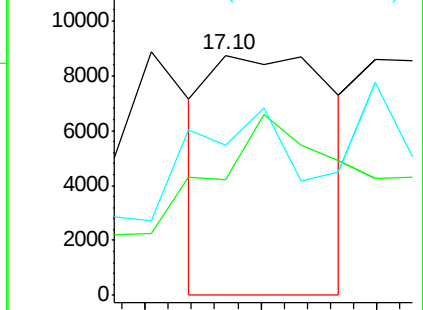
148 0.0 32.4 97.2#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.037 ppbv

RT: 17.25 min Scan# 4453

Delta R.T. 0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

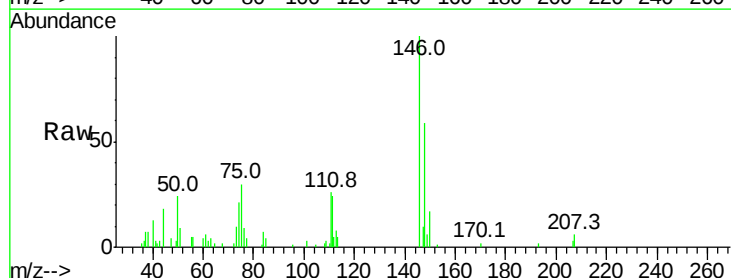
Tgt Ion:146 Resp: 7315

Ion Ratio Lower Upper

146 100

111 163.7 23.2 69.5#

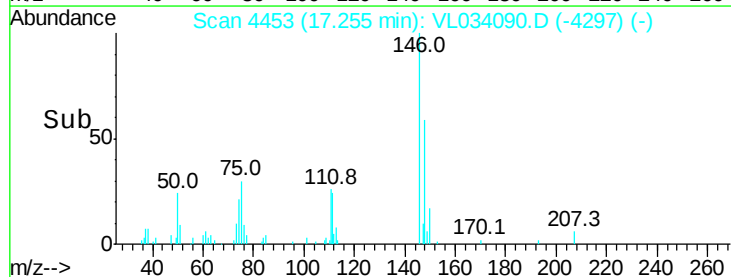
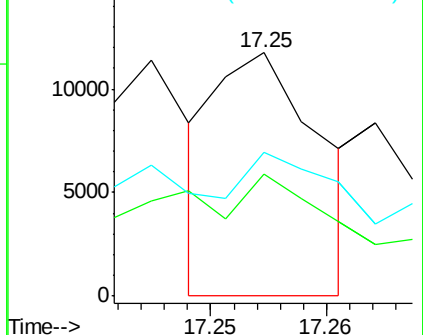
148 214.0 32.1 96.5#

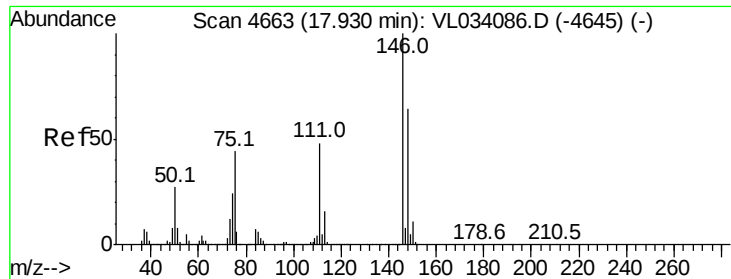


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

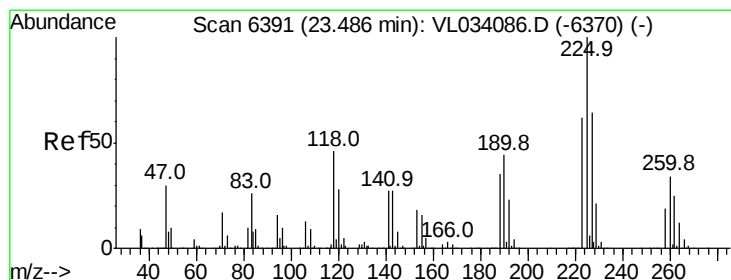
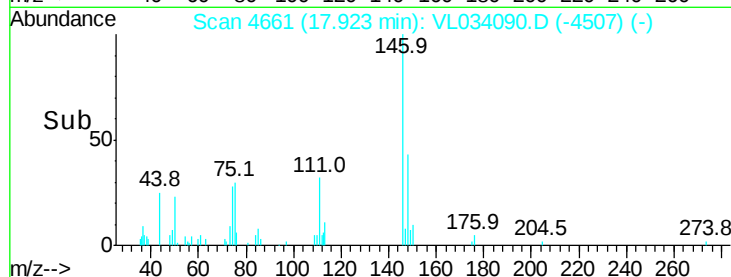
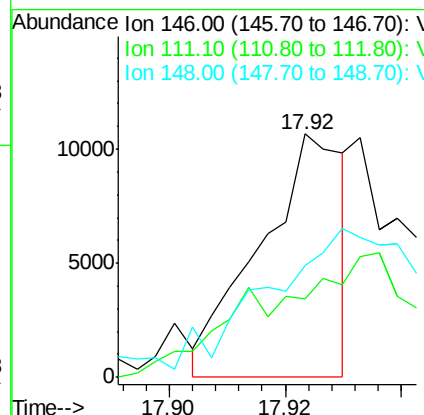
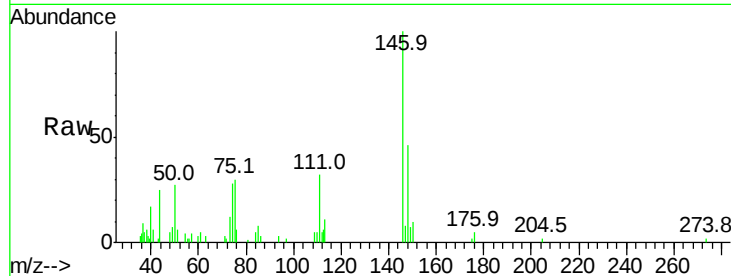




#77
 1,2-Dichlorobenzene
 Concen: 0.054 ppbv
 RT: 17.92 min Scan# 4661
 Delta R.T. -0.01 min
 Lab File: VL034090.D
 Acq: 5 Aug 2019 15:16

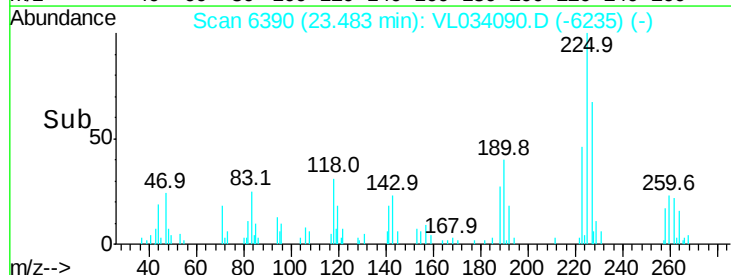
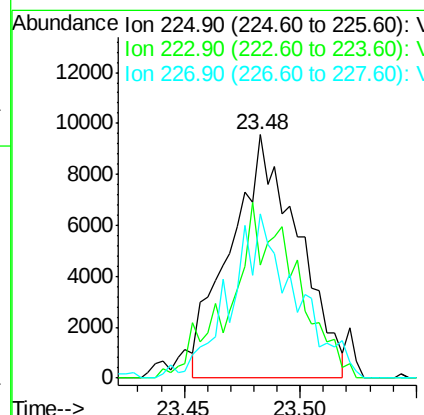
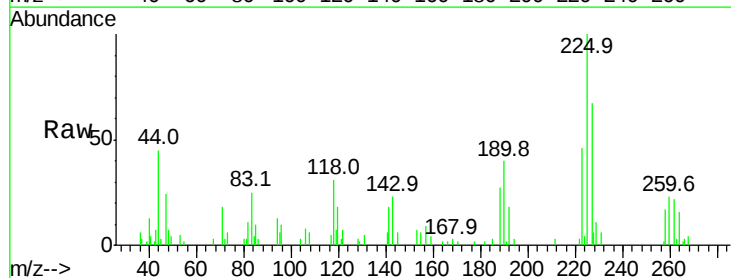
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

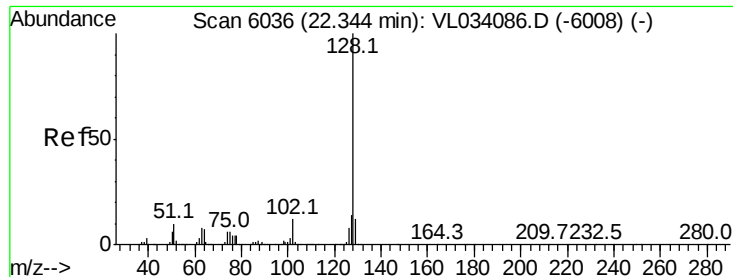
Tgt Ion:146 Resp: 10668
 Ion Ratio Lower Upper
 146 100
 111 0.0 24.0 72.0#
 148 0.0 31.9 95.7#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.108 ppbv
 RT: 23.48 min Scan# 6390
 Delta R.T. -0.00 min
 Lab File: VL034090.D
 Acq: 5 Aug 2019 15:16

Tgt Ion:225 Resp: 19456
 Ion Ratio Lower Upper
 225 100
 223 69.2 50.8 76.2
 227 65.0 52.2 78.2





#79

Naphthalene

Concen: 0.044 ppbv

RT: 22.34 min Scan# 6034

Delta R.T. -0.01 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

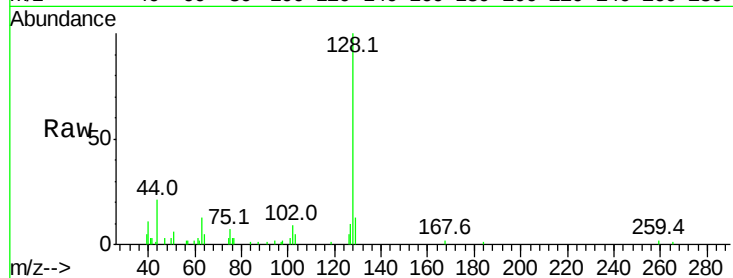
Tgt Ion:128 Resp: 14016

Ion Ratio Lower Upper

128 100

127 7.1 11.0 16.6#

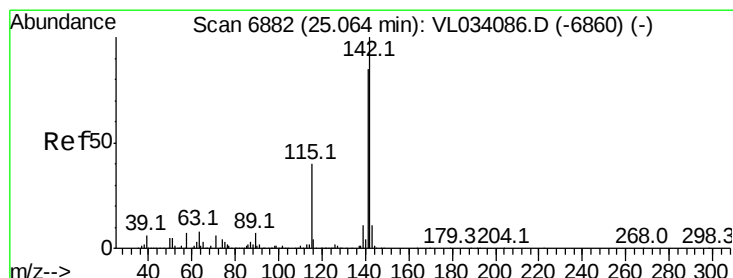
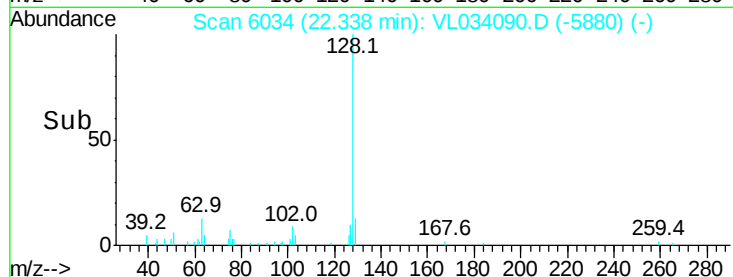
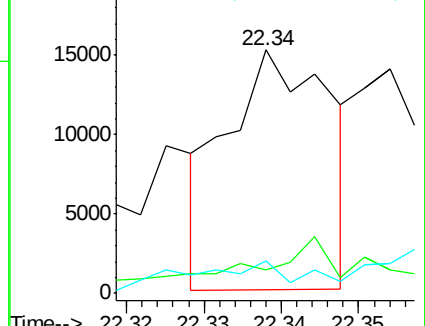
129 20.2 9.2 13.8#



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: 0.085 ppbv

RT: 25.07 min Scan# 6883

Delta R.T. 0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

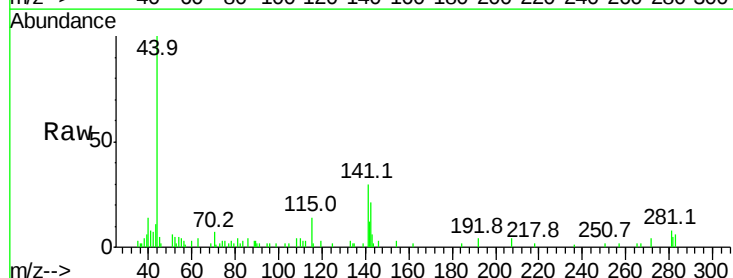
Tgt Ion:142 Resp: 10406

Ion Ratio Lower Upper

142 100

141 89.4 66.1 99.1

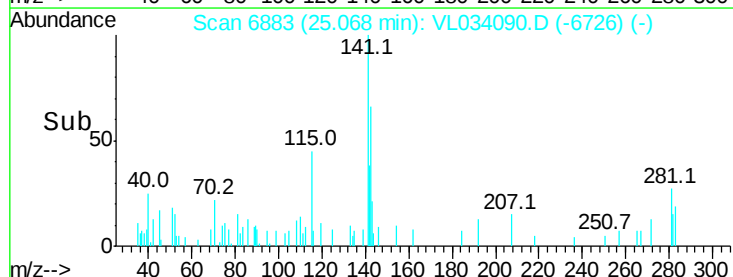
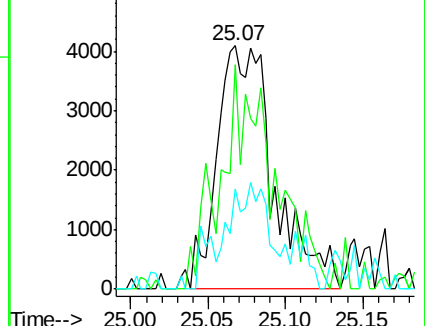
115 42.9 30.8 46.2

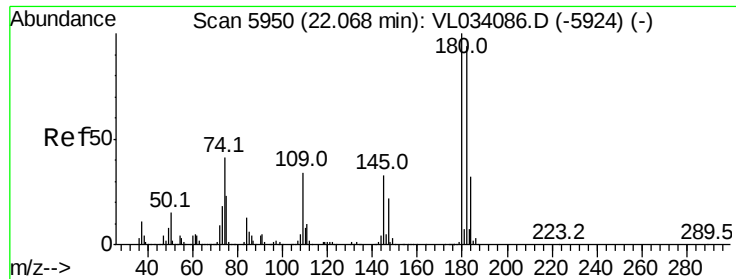


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.016 ppbv
 RT: 22.06 min Scan# 5948
 Delta R.T. -0.01 min
 Lab File: VL034090.D
 Acq: 5 Aug 2019 15:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tgt Ion:180 Resp: 3102
 Ion Ratio Lower Upper
 180 100
 182 0.0 76.7 115.1#
 184 256.5 25.0 37.4#

