

Data File : VL033279.D
Acq On : 12 Mar 2019 9:04
Operator : SY/AP
Sample : VSTDIC0.5
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Quant Time: Mar 12 09:37:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 12 06:59:17 2019
QLast Update : Tue Mar 12 06:59:17 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	934400	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2231893	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2217532	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1714709	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	70558	0.349	ppbv	98
3) Chlorodifluoromethane	3.01	51	59768	0.480	ppbv	99
4) Chloromethane	3.17	50	32608	0.501	ppbv	92
5) Vinyl Chloride	3.29	62	29369	0.453	ppbv	93
6) Bromomethane	3.52	94	12010	0.303	ppbv #	71
7) Chloroethane	3.60	64	10905	0.469	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	77168	0.483	ppbv	96
9) Propene	3.03	41	28729	0.523	ppbv	99
10) Heptane	8.24	43	65263	0.516	ppbv	100
11) Trichlorofluoromethane	4.00	101	80958	0.431	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.55	101	54725	0.508	ppbv	98
13) Ethanol	3.65	45	11802	0.662	ppbv	83
14) Bromoethene	3.79	108	22619	0.454	ppbv #	98
15) Acetone	3.91	43	71624	0.509	ppbv	98
16) 1,3-Butadiene	3.36	39	23626	0.459	ppbv	99
17) tert-Butyl alcohol	4.35	59	1069	0.055	ppbv #	74
18) 1,1-Dichloroethene	4.35	96	23841	0.501	ppbv #	77
19) Isopropyl Alcohol	4.04	45	19442	0.229	ppbv #	86
20) Methylene Chloride	4.40	84	26358	0.548	ppbv	94
21) Allyl Chloride	4.48	41	35642	0.505	ppbv	95
22) trans-1,2-Dichloroethene	4.96	96	23312	0.461	ppbv	96
23) Vinyl Acetate	5.15	43	82205	0.468	ppbv #	98
24) 1,1-Dichloroethane	5.09	63	66038	0.506	ppbv	98
25) Ethyl Acetate	5.77	43	115947	0.525	ppbv	99
26) Hexane	5.78	57	55198	0.535	ppbv	96
27) Carbon Disulfide	4.62	76	48973	0.443	ppbv #	82
28) Methyl tert-Butyl Ether	5.12	73	76002	0.525	ppbv	99
29) Chloroform	5.84	83	83396	0.533	ppbv	100
30) Cyclohexane	7.24	84	10835	0.138	ppbv #	1
31) cis-1,2-Dichloroethene	5.63	61	50768	0.518	ppbv	94
32) 1,1,1-Trichloroethane	6.62	97	41128	0.269	ppbv #	37
34) 2-Butanone	5.33	43	74531	0.504	ppbv	100
35) Carbon Tetrachloride	7.13	117	75035	0.460	ppbv	96
36) Benzene	7.00	78	104938	0.514	ppbv	97
37) 1,2-Dichloroethane	6.40	62	60830	0.486	ppbv #	96
38) Trichloroethene	7.95	130	19006	0.238	ppbv	98
39) 1,2-Dichloropropane	7.73	63	39102	0.505	ppbv	98
41) Tetrahydrofuran	6.17	42	37671	0.473	ppbv	95
42) Bromodichloromethane	7.91	83	82731	0.486	ppbv	97
43) Methyl Methacrylate	8.14	69	39449	0.500	ppbv	98
44) 2,2,4-Trimethylpentane	7.99	57	181191	0.520	ppbv	99

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Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: Mar 12 09:37:50 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 12 06:59:17 2019

QLast Update : Tue Mar 12 06:59:17 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) t-1,3-Dichloropropene	9.41	75	41562	0.427	ppbv #	81
46) cis-1,3-Dichloropropene	8.83	75	51222	0.448	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	25838	0.310	ppbv	98
48) Dibromochloromethane	10.44	129	32145	0.238	ppbv #	13
49) Bromoform	13.19	173	26816	0.247	ppbv #	34
50) 4-Methyl-2-Pentanone	8.88	43	50679	0.242	ppbv #	40
51) 2-Hexanone	10.28	43	73239	0.463	ppbv #	99
52) Tetrachloroethene	11.37	164	39390	0.523	ppbv	89
53) Toluene	9.94	91	119695	0.518	ppbv	94
54) 1,2-Dibromoethane	10.76	107	62486	0.495	ppbv	89
56) 1,1,1,2-Tetrachloroethane	12.28	131	25432	0.272	ppbv #	1
57) Chlorobenzene	12.30	112	90673	0.543	ppbv #	96
58) Ethyl Benzene	12.86	91	77086	0.254	ppbv	97
59) m/p-Xylene	13.12	91	114447	0.450	ppbv #	32
60) o-Xylene	13.85	91	127358	0.520	ppbv	99
61) Styrene	13.68	104	47262	0.277	ppbv #	27
62) Isopropylbenzene	14.82	105	175688	0.516	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	51841	0.319	ppbv #	48
64) n-propylbenzene	15.72	120	7114	0.086	ppbv #	1
65) tert-Butylbenzene	16.91	119	142690	0.496	ppbv	96
66) Benzyl Chloride	17.15	91	14878	0.136	ppbv #	66
67) sec-Butylbenzene	17.45	105	204762	0.502	ppbv	100
69) p-Isopropyltoluene	17.82	119	161166	0.492	ppbv	99
70) n-Butylbenzene	18.71	91	175408	0.499	ppbv	99
71) 2-Chlorotoluene	15.61	91	134250	0.527	ppbv	99
72) 4-Ethyltoluene	16.00	105	127312	0.484	ppbv	98
73) 1,3,5-Trimethylbenzene	16.15	105	125118	0.508	ppbv	94
74) 1,2,4-Trimethylbenzene	16.92	105	122695	0.482	ppbv	94
75) 1,3-Dichlorobenzene	17.16	146	77774	0.512	ppbv	93
76) 1,4-Dichlorobenzene	17.30	146	78285	0.526	ppbv	94
77) 1,2-Dichlorobenzene	17.99	146	79617	0.534	ppbv	97
78) Hexachloro-1,3-Butadiene	23.54	225	88984	0.772	ppbv	97
79) Naphthalene	22.42	128	116511	0.449	ppbv	97
80) Naphthalene,2-methyl-	25.12	142	38872	0.644	ppbv	88
81) 1,2,4-Trichlorobenzene	22.14	180	70722	0.513	ppbv	98

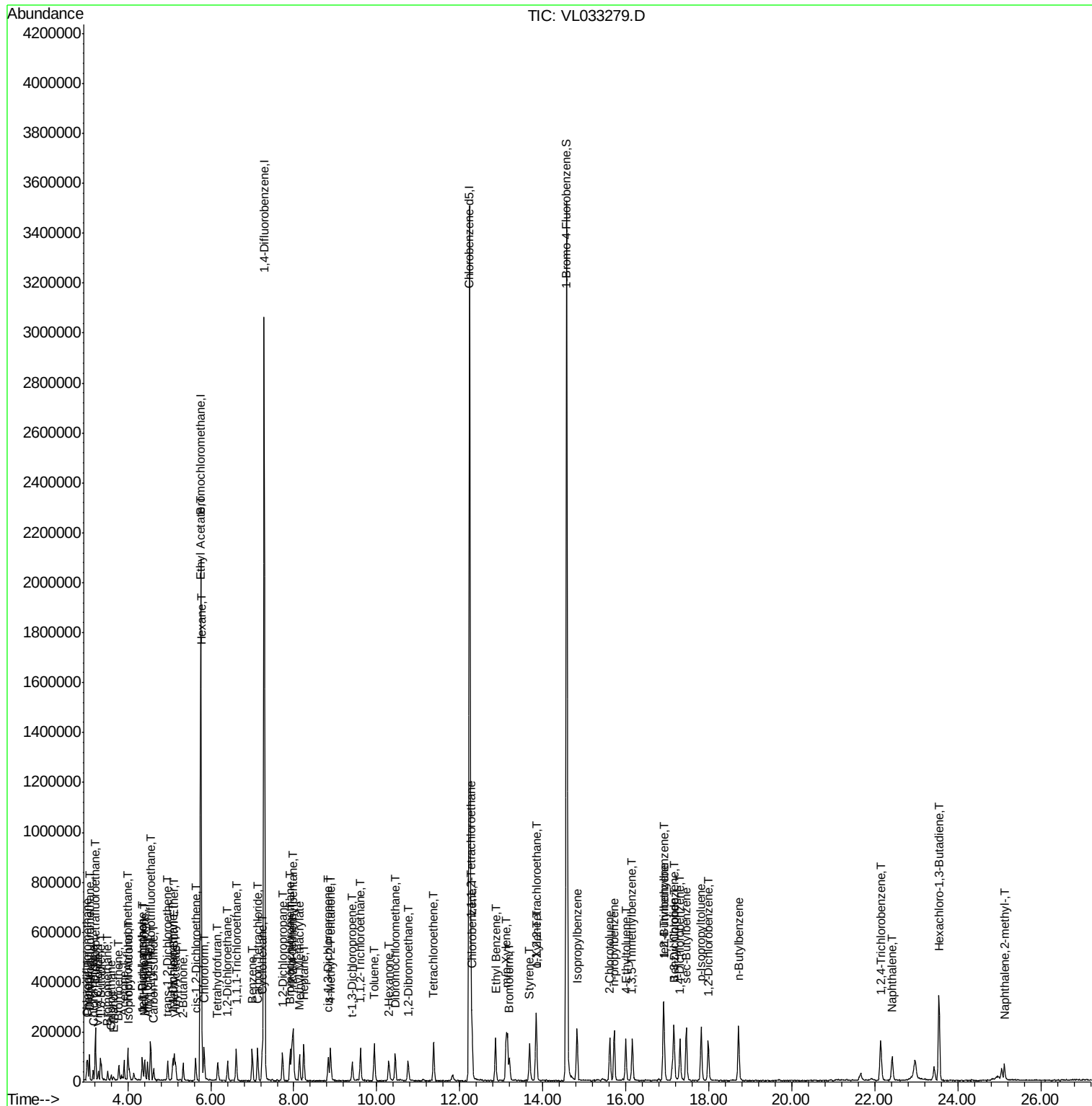
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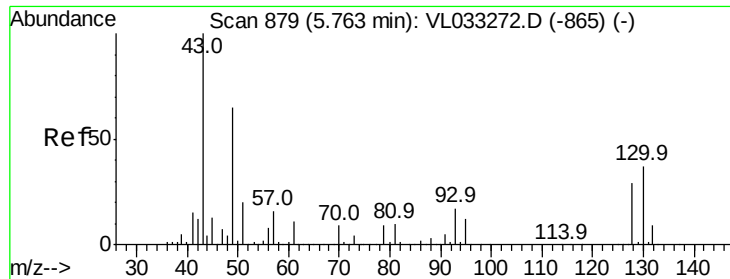
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MSVOA_L
ClientSampleId :
VSTDICCO.5

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

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Acq: 12 Mar 2019 9:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

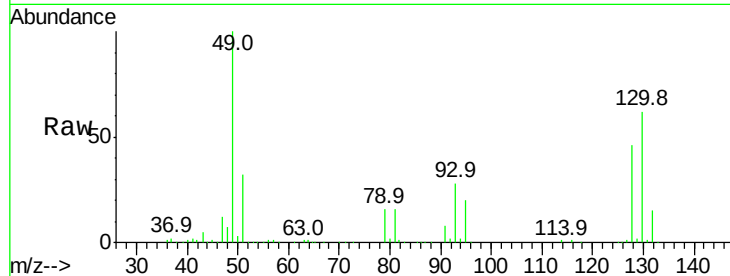
Tgt Ion: 49 Resp: 934400

Ion Ratio Lower Upper

49 100

128 47.7 23.3 69.9

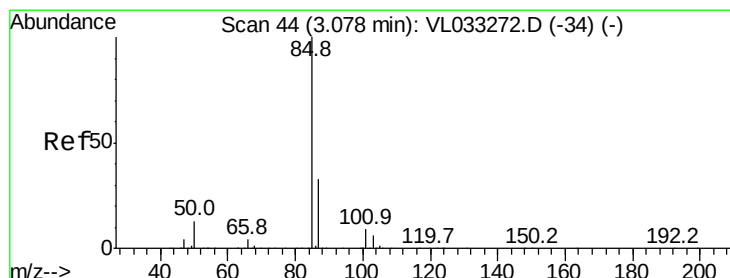
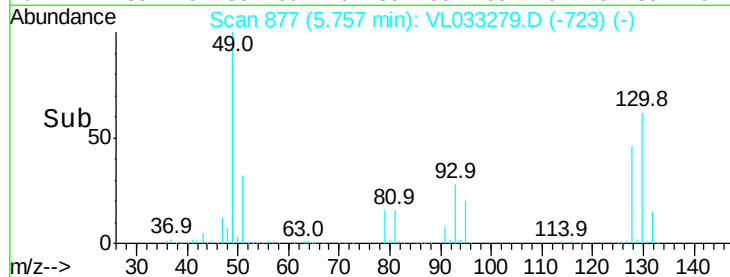
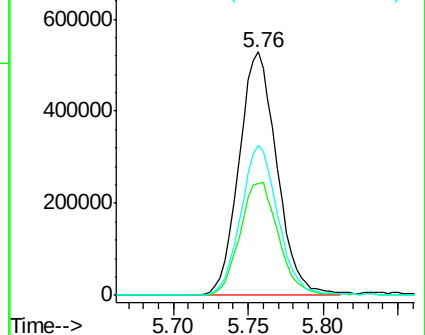
130 61.0 30.0 90.1



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: 0.349 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033279.D

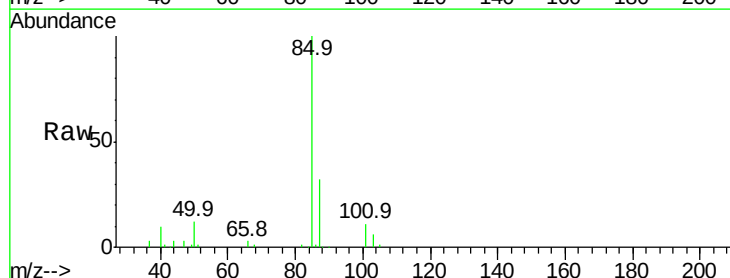
Acq: 12 Mar 2019 9:04

Tgt Ion: 85 Resp: 70558

Ion Ratio Lower Upper

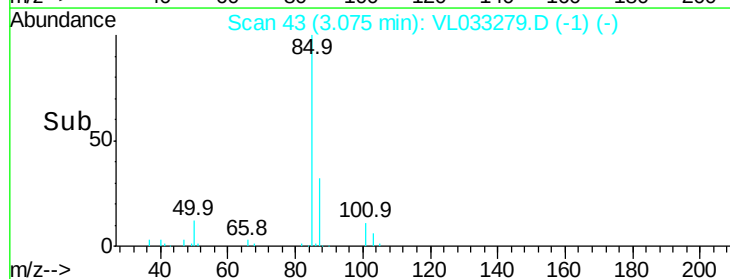
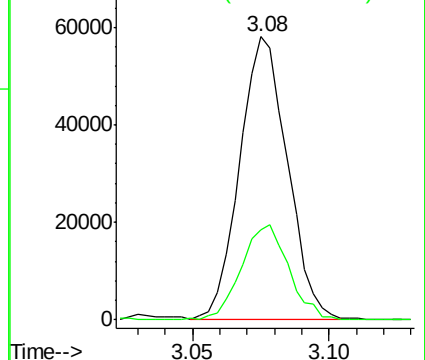
85 100

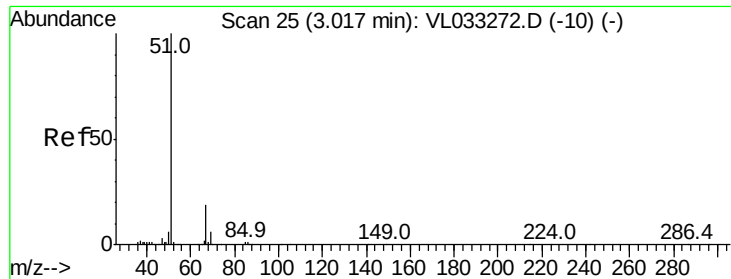
87 31.8 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

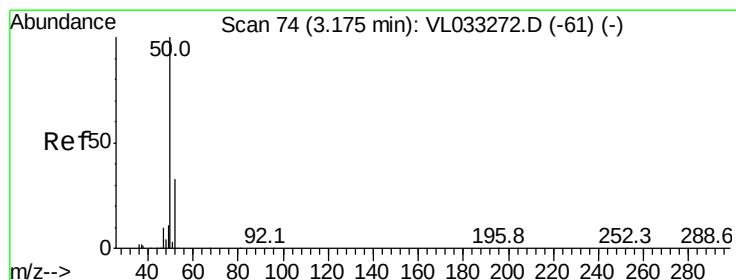
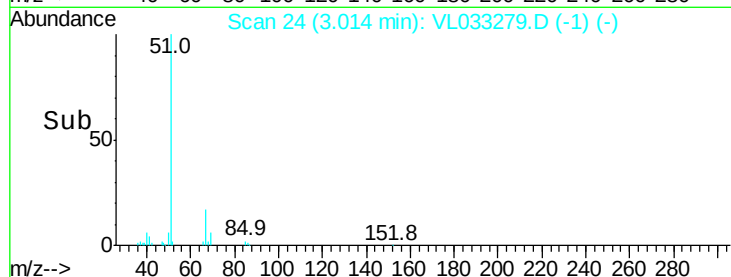
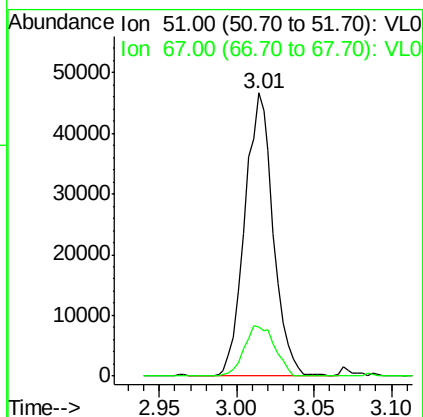
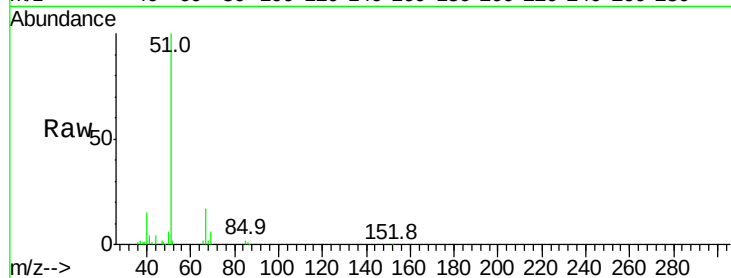




#3
Chlorodifluoromethane
Concen: 0.480 ppbv
RT: 3.01 min Scan# 24
Delta R.T. -0.00 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

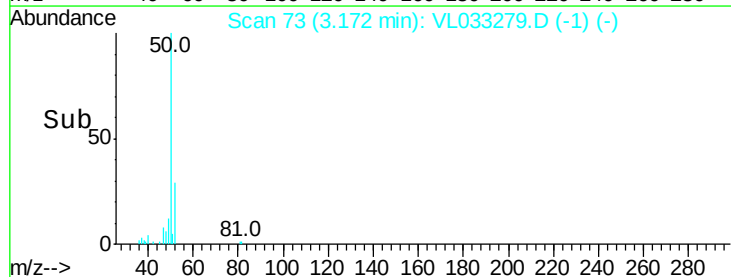
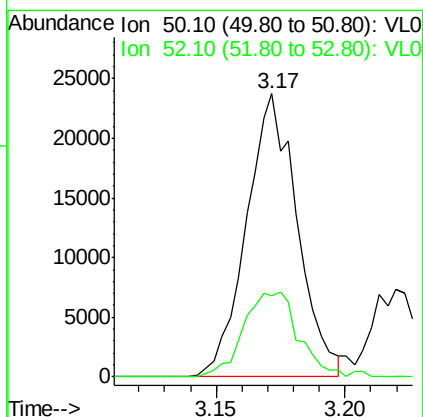
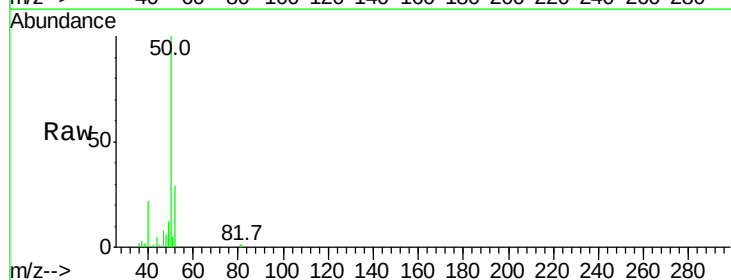
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

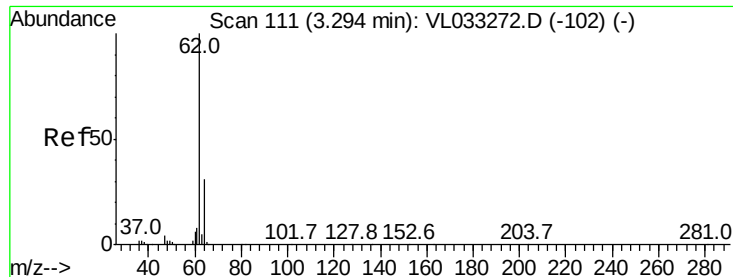
Tgt Ion: 51 Resp: 59768
Ion Ratio Lower Upper
51 100
67 19.2 15.0 22.4



#4
Chloromethane
Concen: 0.501 ppbv
RT: 3.17 min Scan# 73
Delta R.T. -0.00 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Tgt Ion: 50 Resp: 32608
Ion Ratio Lower Upper
50 100
52 28.6 26.6 39.8





#5

Vinyl Chloride

Concen: 0.453 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

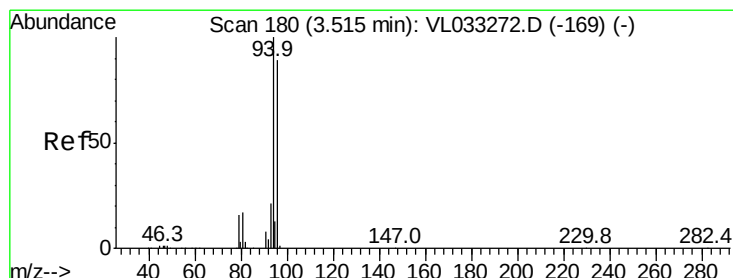
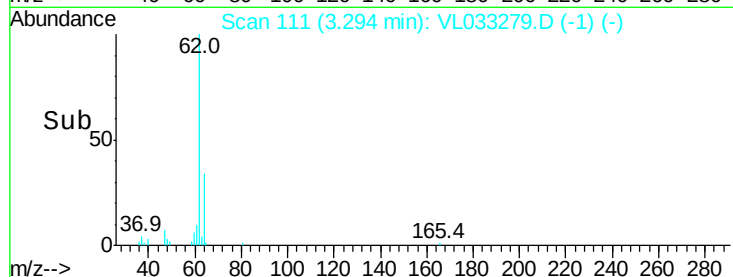
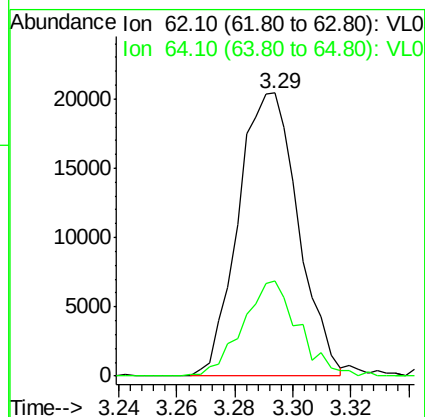
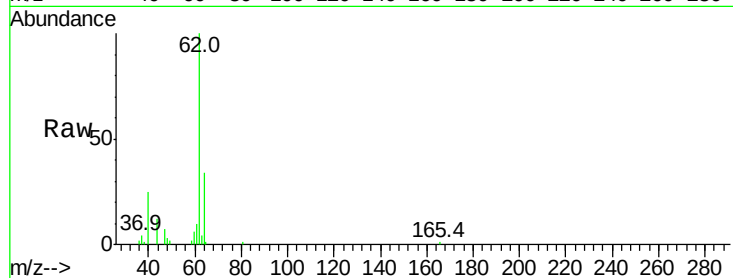
VSTDIC0.5

Tgt Ion: 62 Resp: 29369

Ion Ratio Lower Upper

62 100

64 34.3 24.5 36.7



#6

Bromomethane

Concen: 0.303 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033279.D

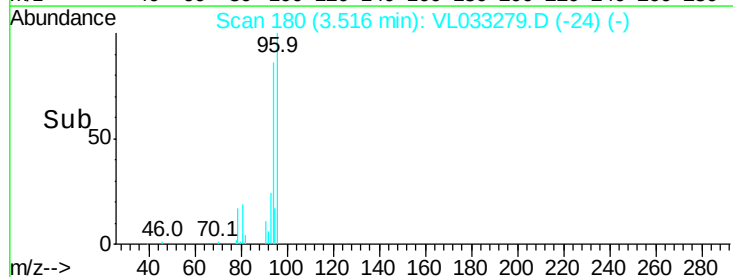
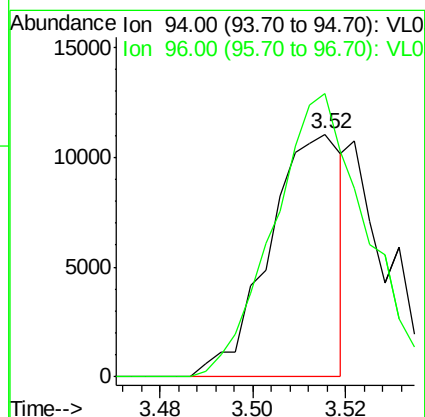
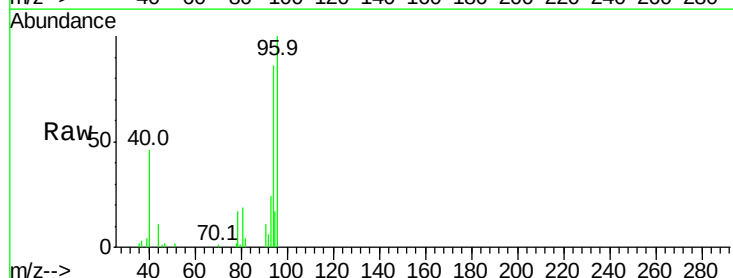
Acq: 12 Mar 2019 9:04

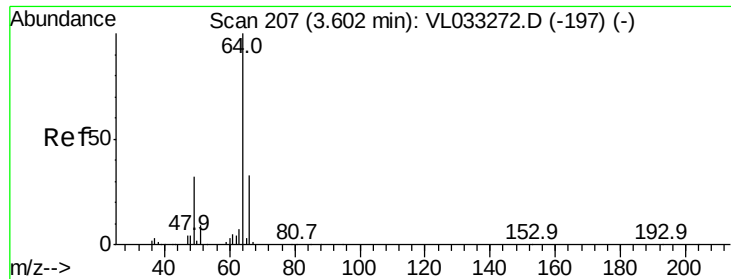
Tgt Ion: 94 Resp: 12010

Ion Ratio Lower Upper

94 100

96 116.5 71.3 106.9#





#7

Chloroethane

Concen: 0.469 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

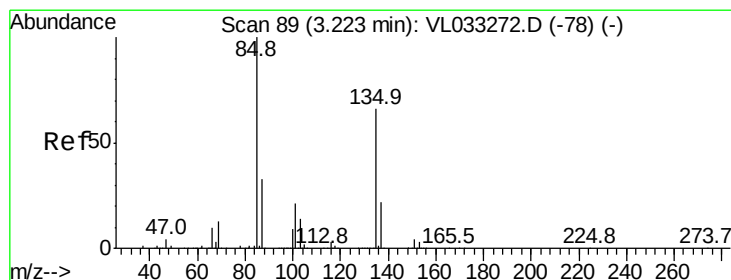
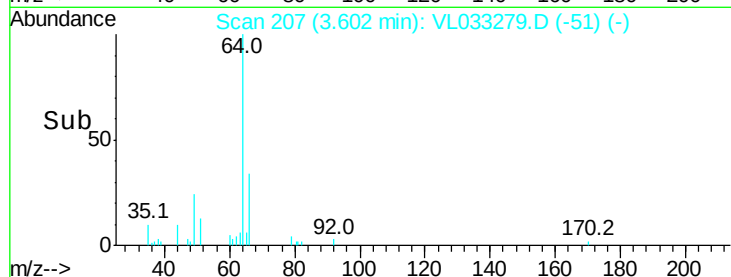
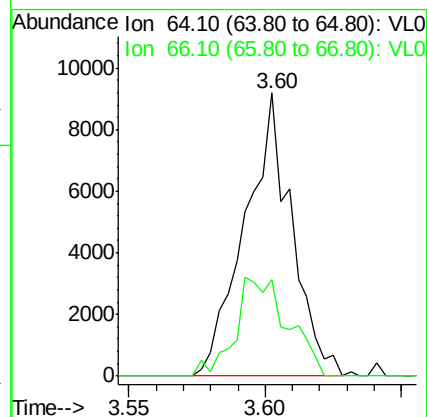
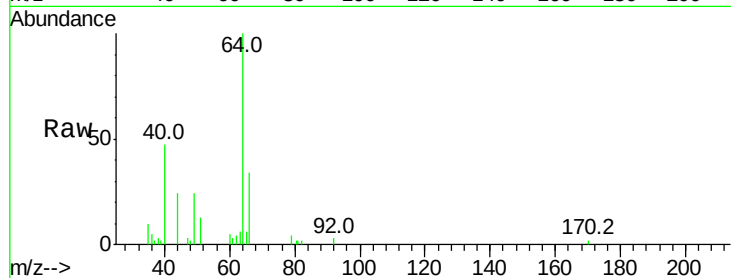
VSTDIC0.5

Tgt Ion: 64 Resp: 10905

Ion Ratio Lower Upper

64 100

66 34.3 26.2 39.2



#8

Dichlorotetrafluoroethane

Concen: 0.483 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033279.D

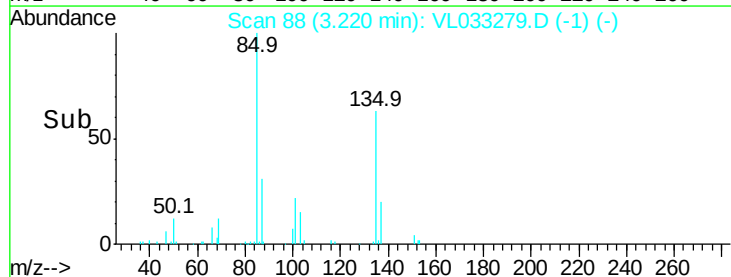
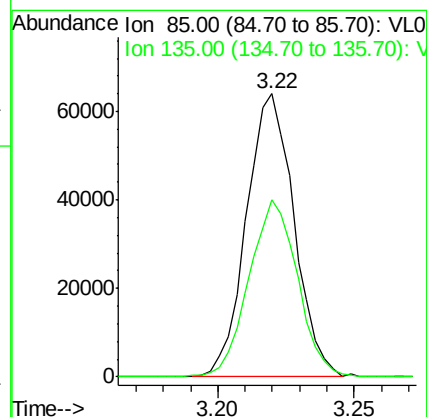
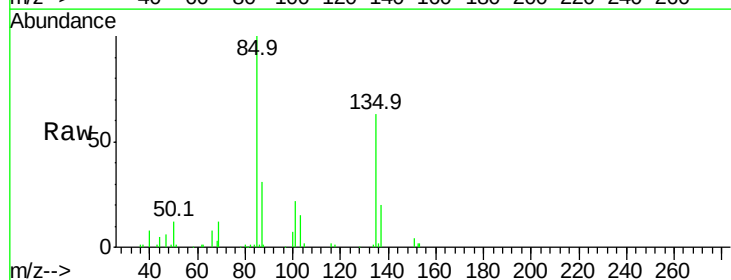
Acq: 12 Mar 2019 9:04

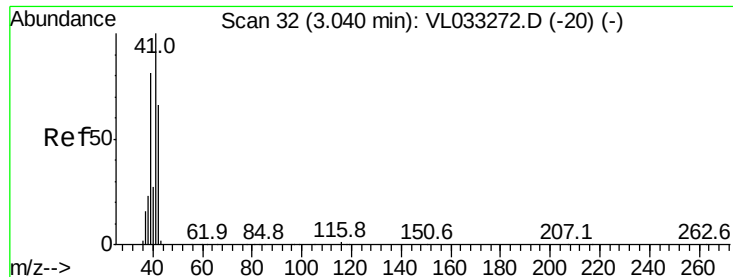
Tgt Ion: 85 Resp: 77168

Ion Ratio Lower Upper

85 100

135 63.9 53.4 80.2





#9

Propene

Concen: 0.523 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

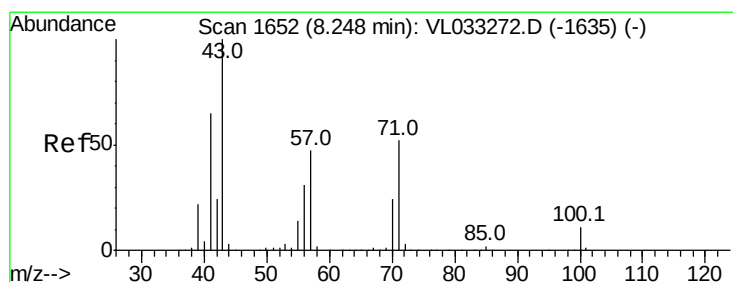
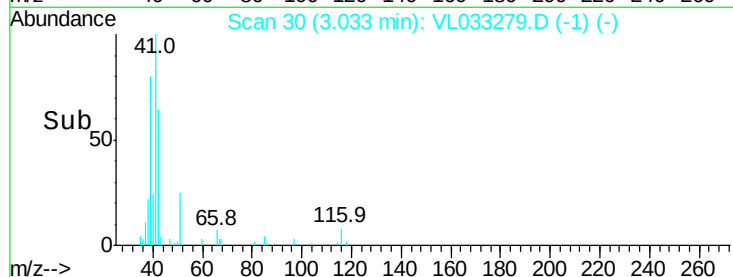
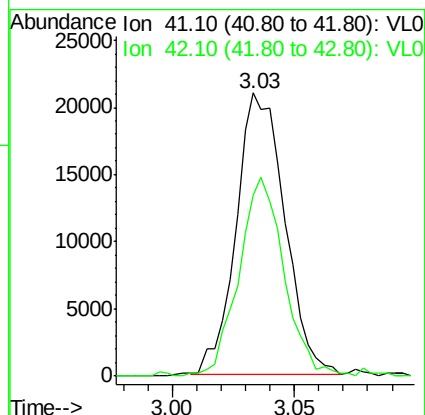
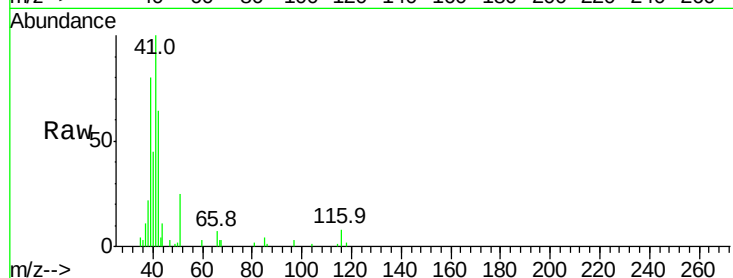
VSTDIC0.5

Tgt Ion: 41 Resp: 28729

Ion Ratio Lower Upper

41 100

42 67.3 54.6 82.0



#10

Heptane

Concen: 0.516 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.01 min

Lab File: VL033279.D

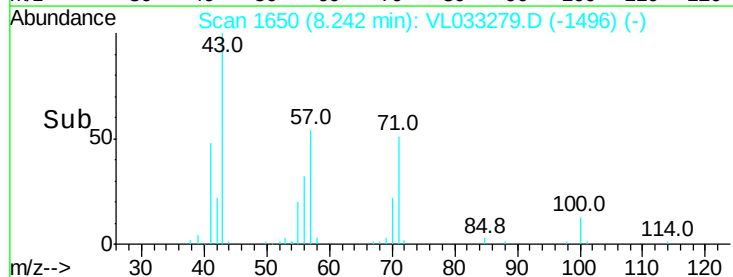
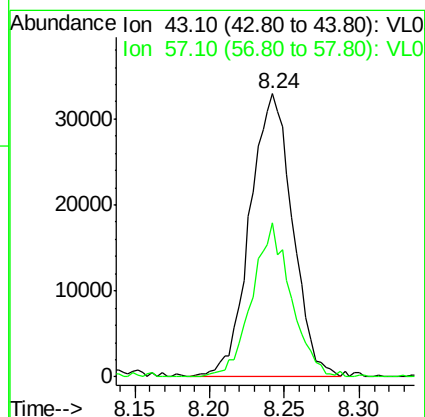
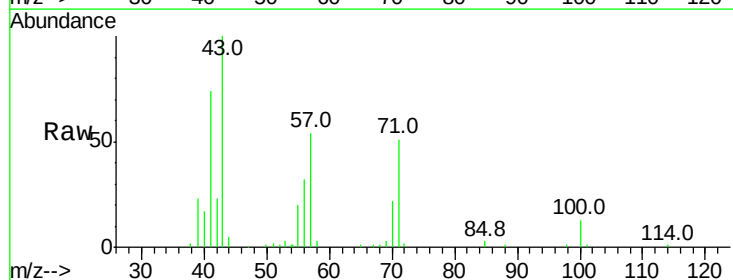
Acq: 12 Mar 2019 9:04

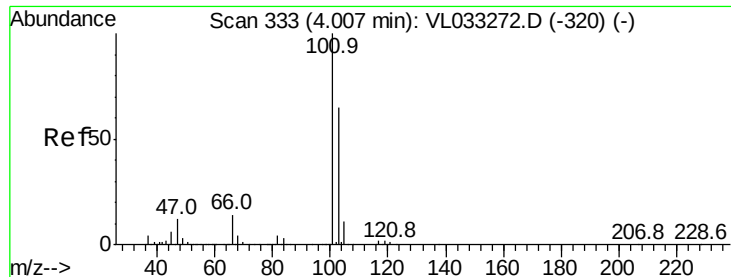
Tgt Ion: 43 Resp: 65263

Ion Ratio Lower Upper

43 100

57 49.7 39.8 59.8

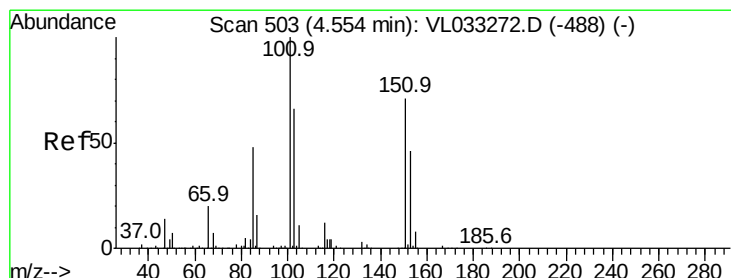
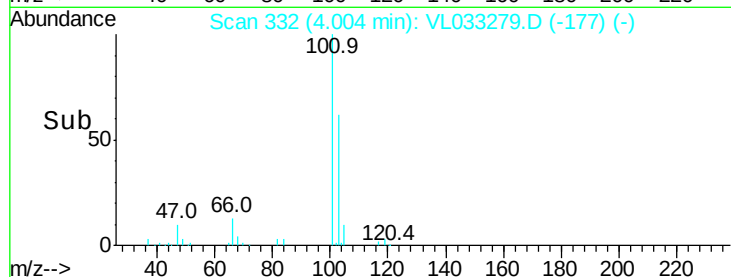
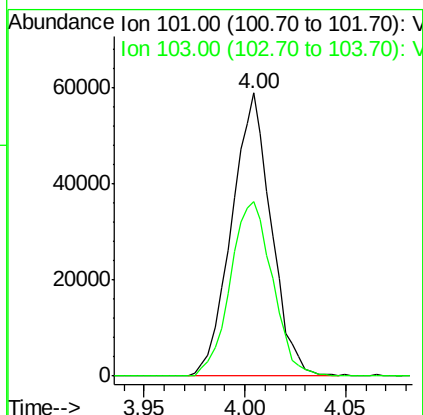
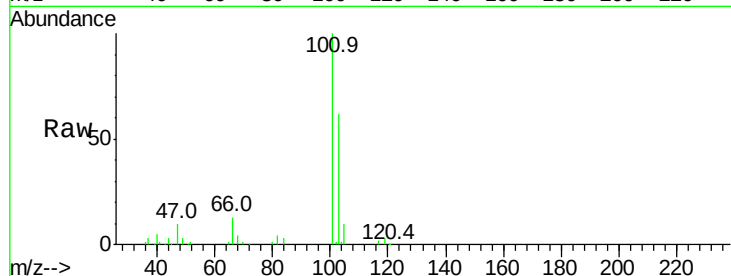




#11
 Trichlorofluoromethane
 Concen: 0.431 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

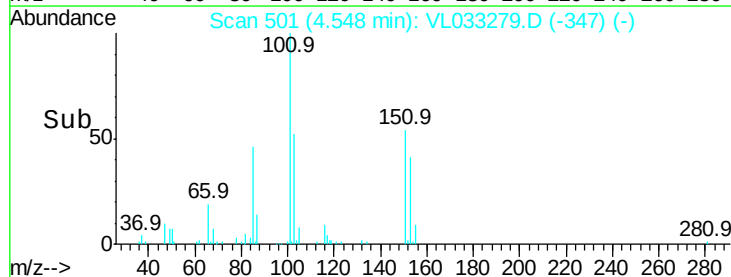
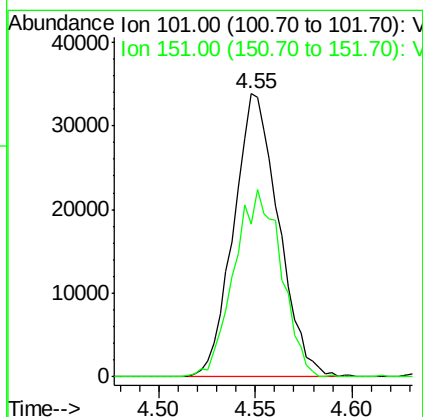
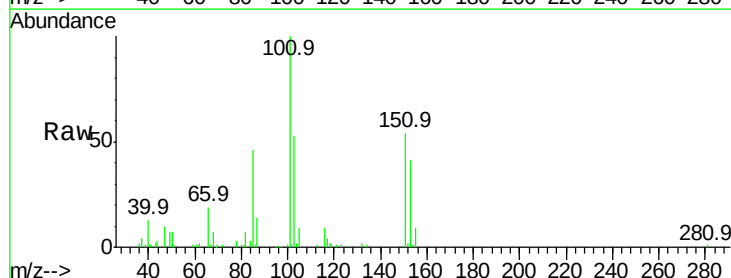
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

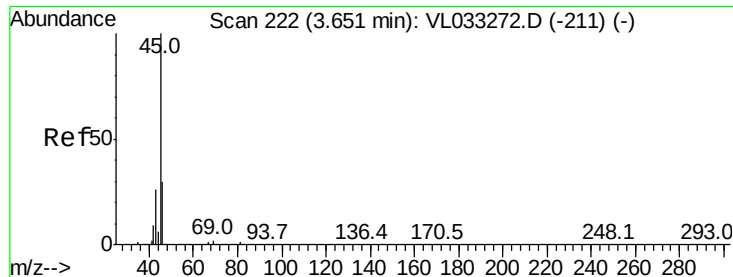
Tgt Ion:101 Resp: 80958
 Ion Ratio Lower Upper
 101 100
 103 61.8 51.8 77.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.508 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion:101 Resp: 54725
 Ion Ratio Lower Upper
 101 100
 151 69.2 56.9 85.3





#13

Ethanol

Concen: 0.662 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

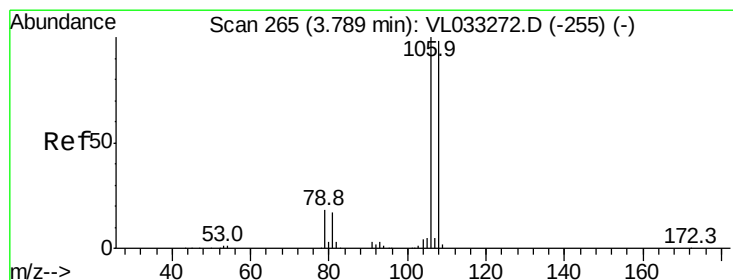
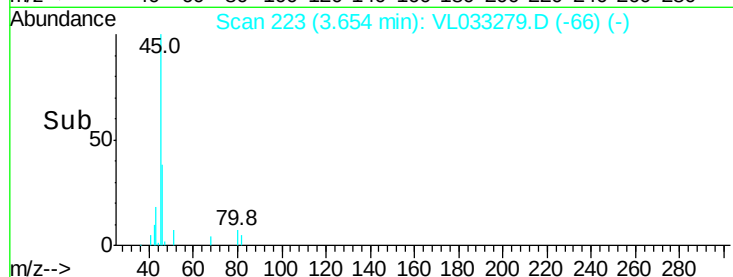
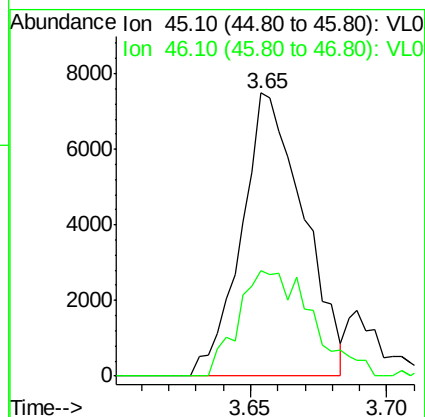
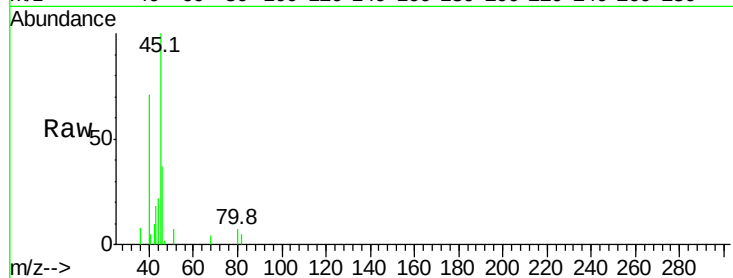
VSTDIC0.5

Tgt Ion: 45 Resp: 11802

Ion Ratio Lower Upper

45 100

46 44.9 13.9 55.7



#14

Bromoethene

Concen: 0.454 ppbv

RT: 3.79 min Scan# 266

Delta R.T. 0.00 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

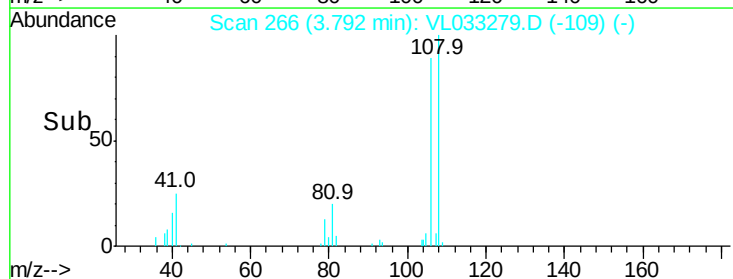
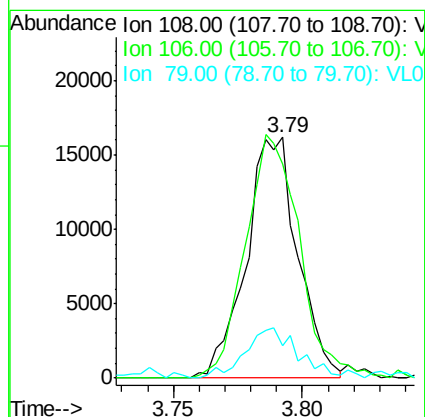
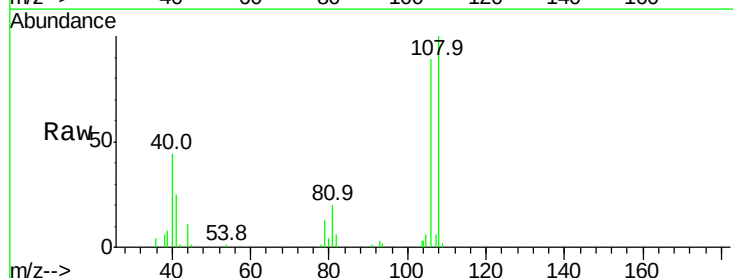
Tgt Ion: 108 Resp: 22619

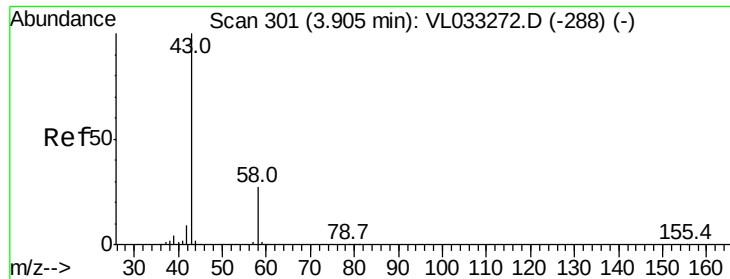
Ion Ratio Lower Upper

108 100

106 106.6 85.9 128.9

79 23.4 14.9 22.3#





#15

Acetone

Concen: 0.509 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

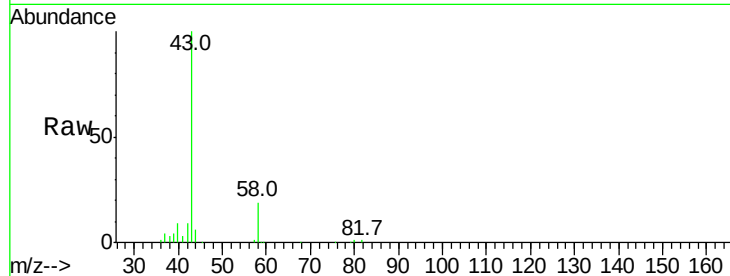
VSTDIC0.5

Tgt Ion: 43 Resp: 71624

Ion Ratio Lower Upper

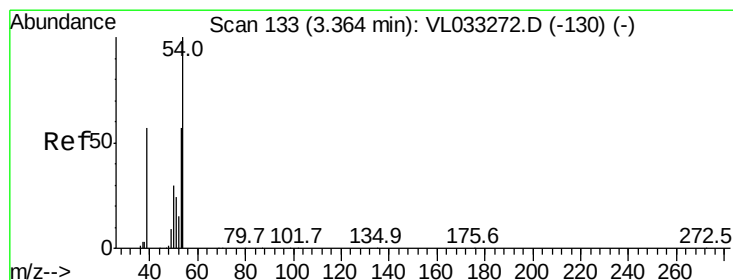
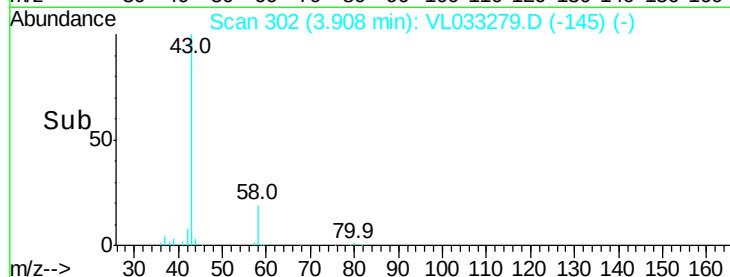
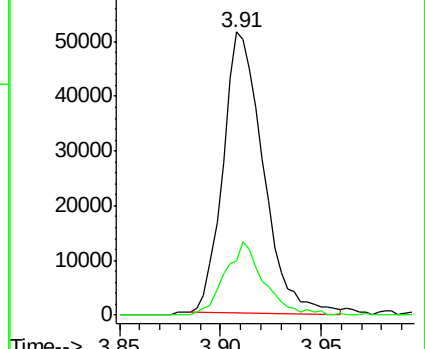
43 100

58 25.2 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.459 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033279.D

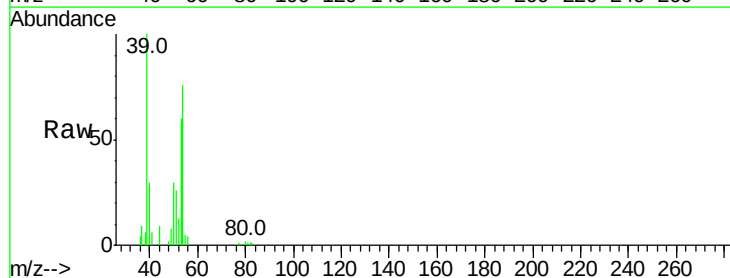
Acq: 12 Mar 2019 9:04

Tgt Ion: 39 Resp: 23626

Ion Ratio Lower Upper

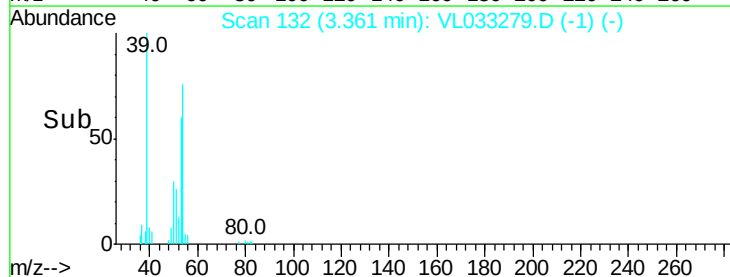
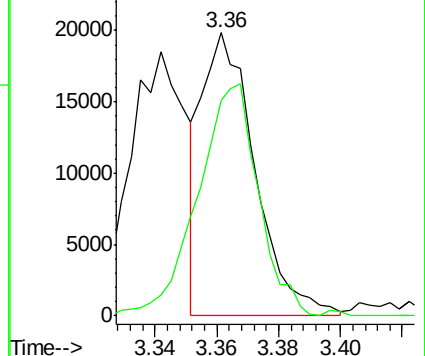
39 100

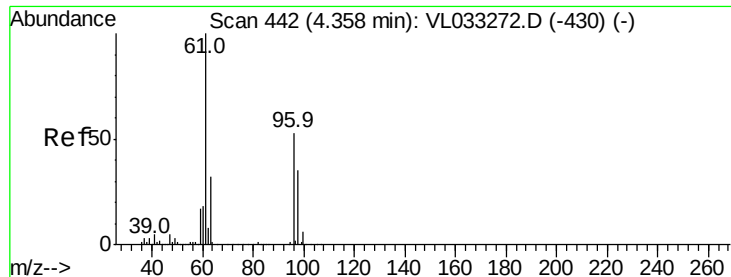
54 94.9 76.6 114.8



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.055 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

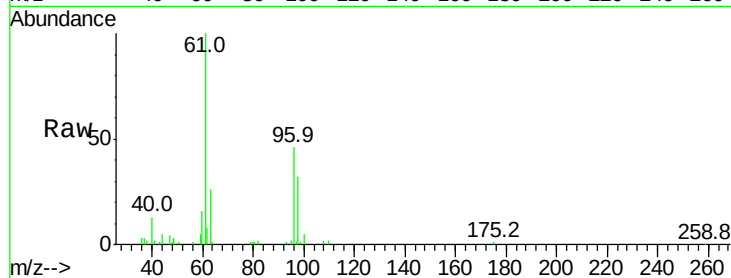
VSTDIC0.5

Tgt Ion: 59 Resp: 1069

Ion Ratio Lower Upper

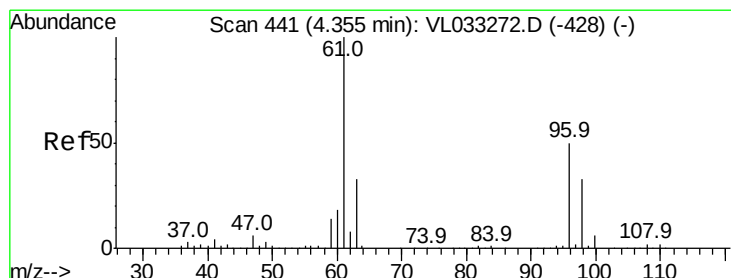
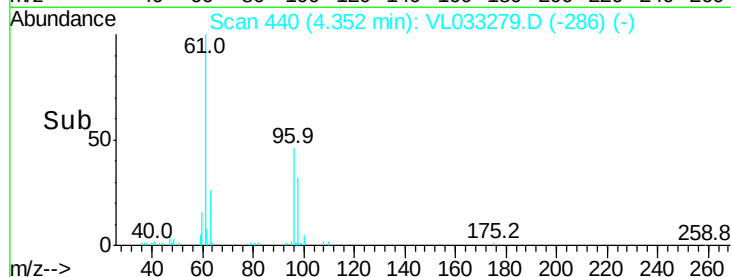
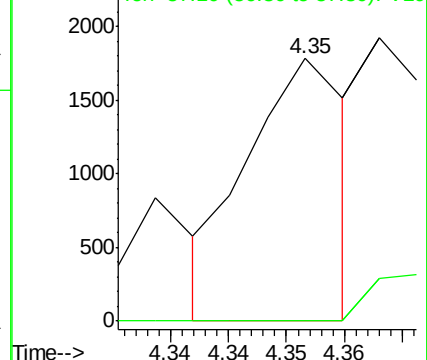
59 100

57 0.0 7.5 11.3#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.501 ppbv

RT: 4.35 min Scan# 439

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

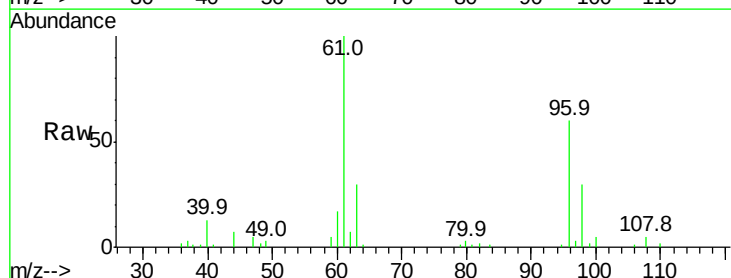
Tgt Ion: 96 Resp: 23841

Ion Ratio Lower Upper

96 100

61 162.3 158.9 238.3

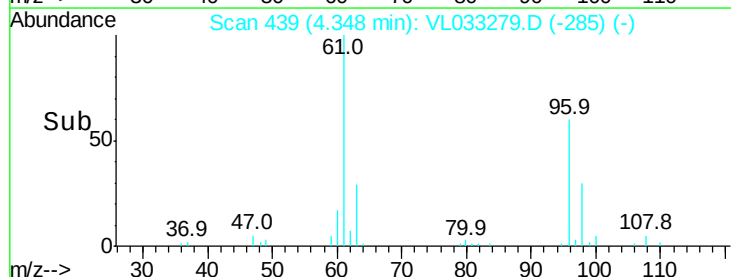
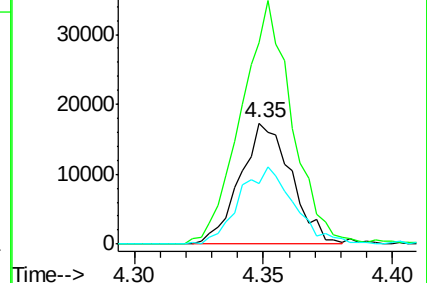
98 49.0 52.4 78.6#

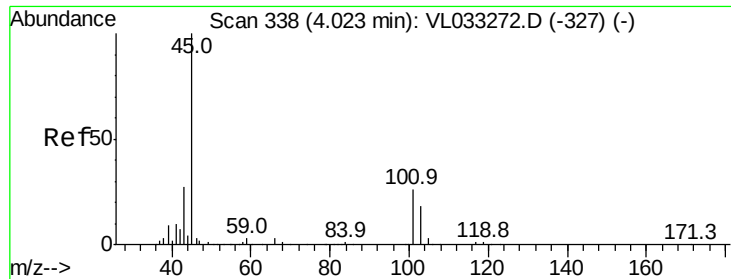


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

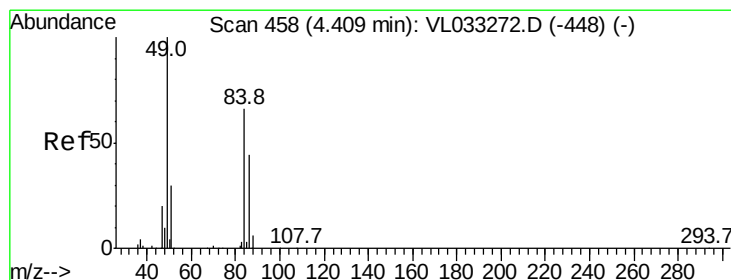
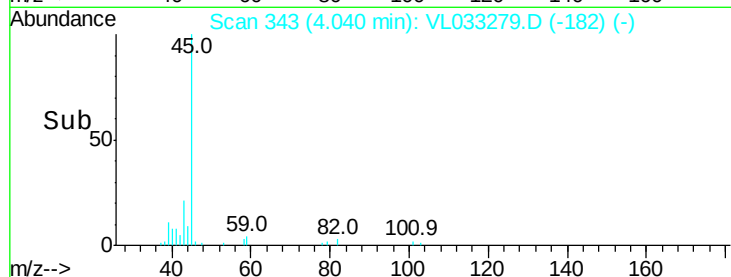
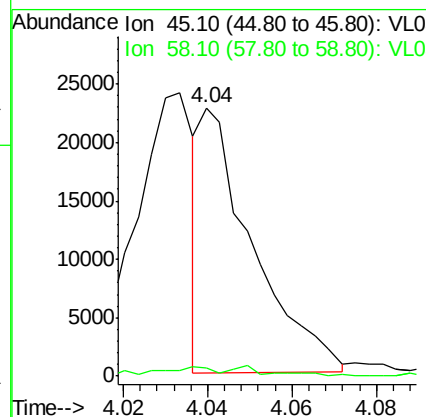
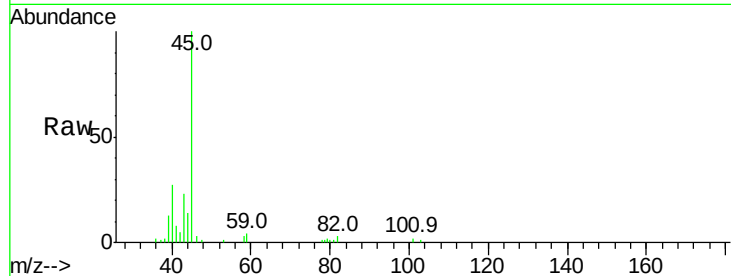




#19
Isopropyl Alcohol
Concen: 0.229 ppbv
RT: 4.04 min Scan# 343
Delta R.T. 0.02 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

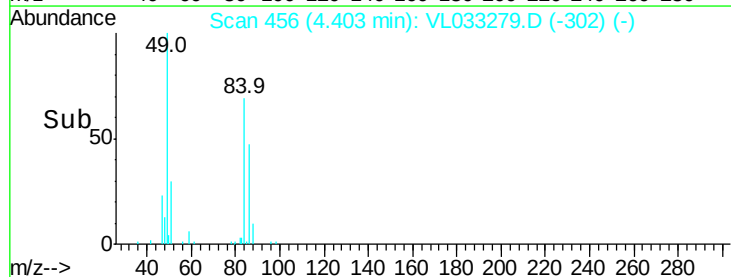
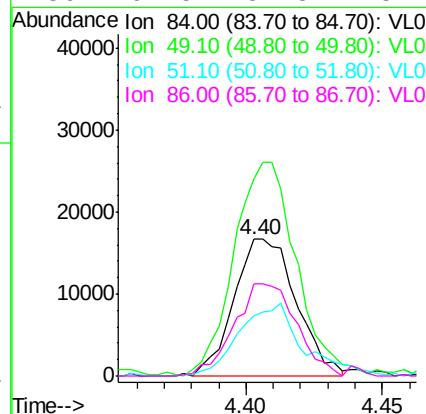
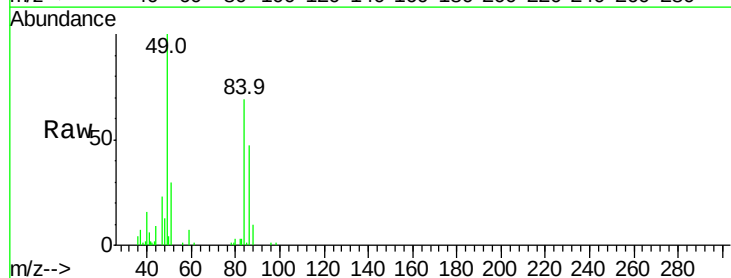
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

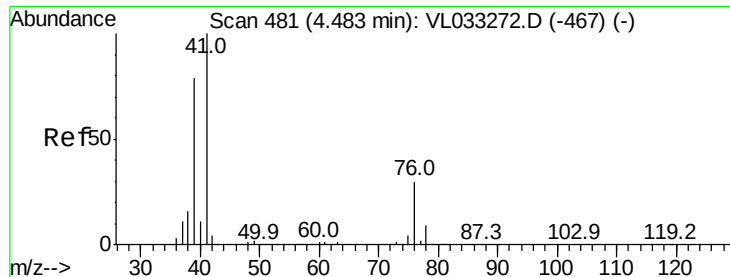
Tgt Ion: 45 Resp: 19442
Ion Ratio Lower Upper
45 100
58 6.9 1.4 2.2#



#20
Methylene Chloride
Concen: 0.548 ppbv
RT: 4.40 min Scan# 456
Delta R.T. -0.01 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Tgt Ion: 84 Resp: 26358
Ion Ratio Lower Upper
84 100
49 139.6 120.3 180.5
51 42.5 36.2 54.4
86 67.5 52.5 78.7

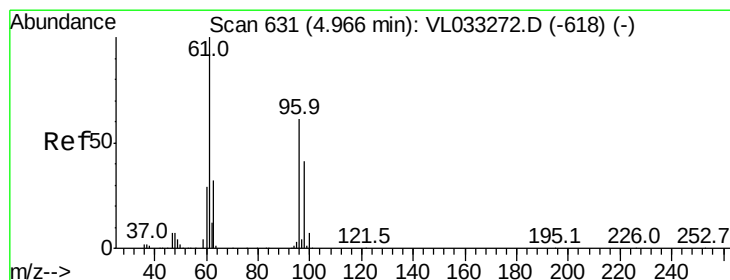
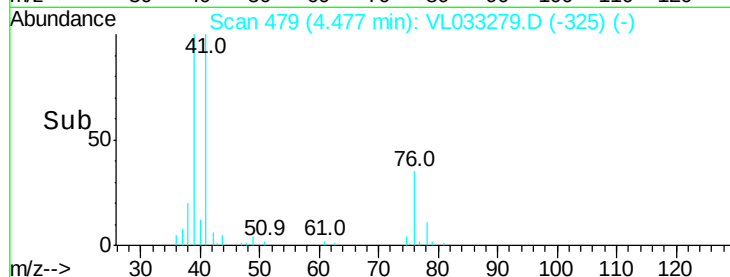
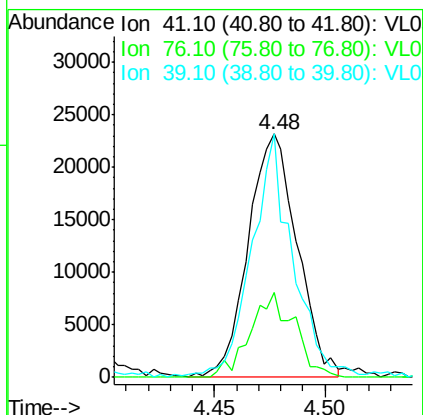
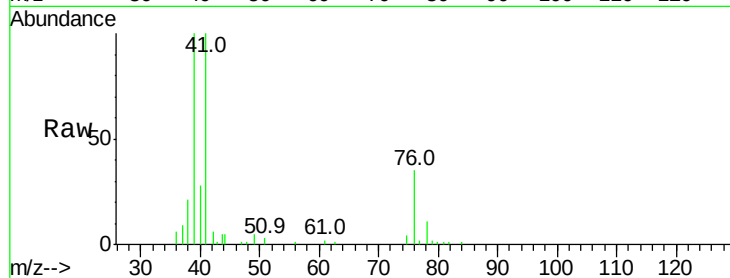




#21
 Allyl Chloride
 Concen: 0.505 ppbv
 RT: 4.48 min Scan# 479
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

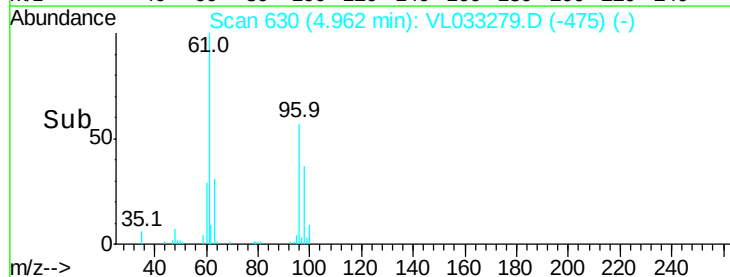
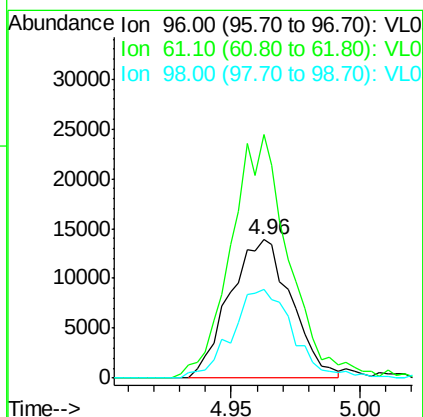
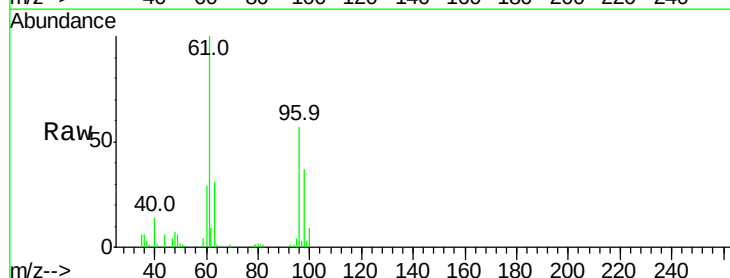
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

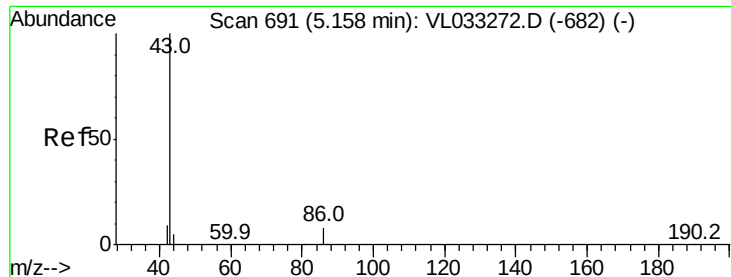
Tgt Ion: 41 Resp: 35642
 Ion Ratio Lower Upper
 41 100
 76 31.6 25.0 37.4
 39 85.8 64.2 96.4



#22
 trans-1,2-Dichloroethene
 Concen: 0.461 ppbv
 RT: 4.96 min Scan# 630
 Delta R.T. -0.00 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion: 96 Resp: 23312
 Ion Ratio Lower Upper
 96 100
 61 167.0 131.6 197.4
 98 60.8 54.1 81.1





#23

Vinyl Acetate

Concen: 0.468 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 43 Resp: 82205

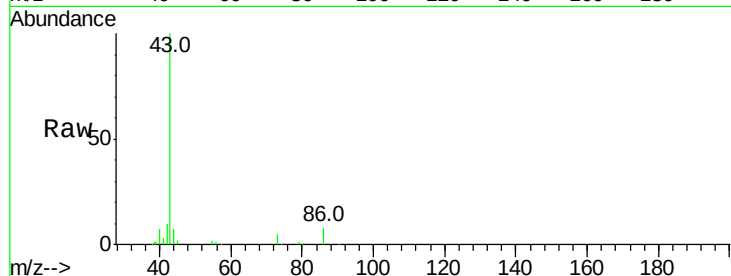
Ion Ratio Lower Upper

43 100

86 8.3 5.5 8.3#

42 10.0 7.8 11.6

44 5.5 3.6 5.4#

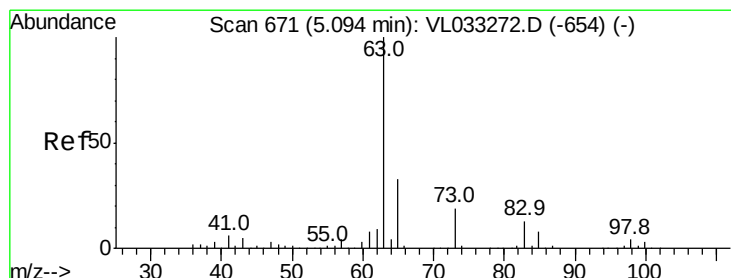
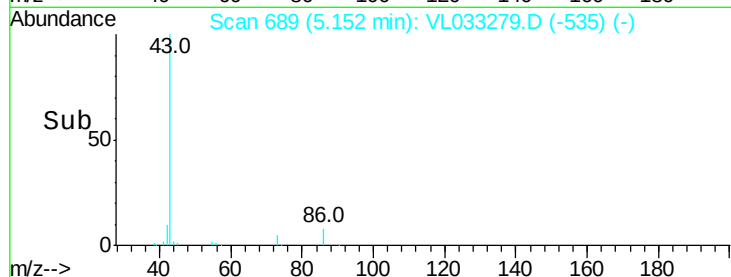
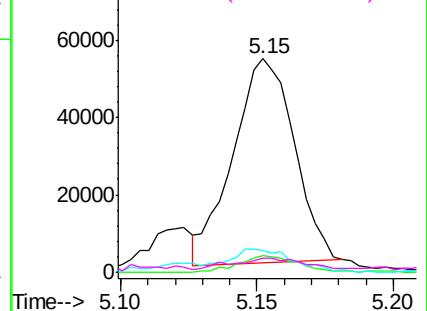


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.506 ppbv

RT: 5.09 min Scan# 669

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

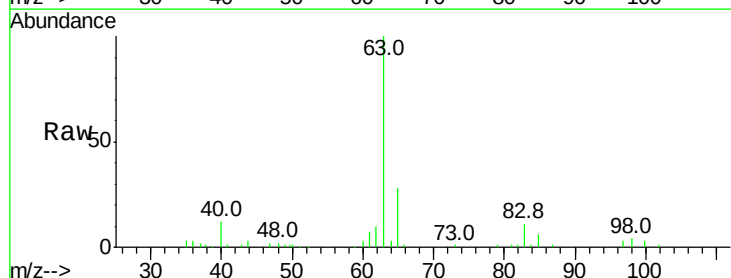
Tgt Ion: 63 Resp: 66038

Ion Ratio Lower Upper

63 100

98 3.5 2.2 6.6

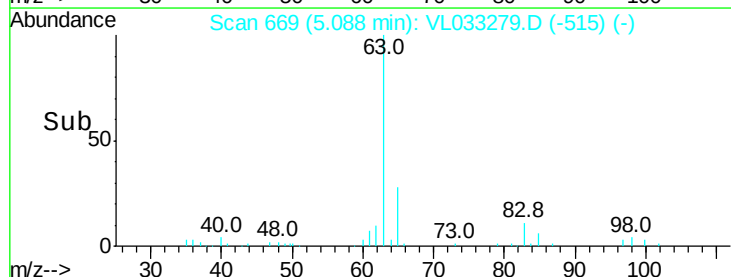
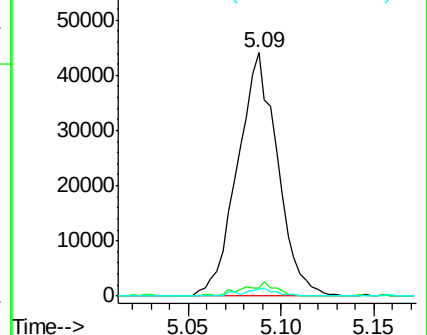
100 2.9 1.5 4.4

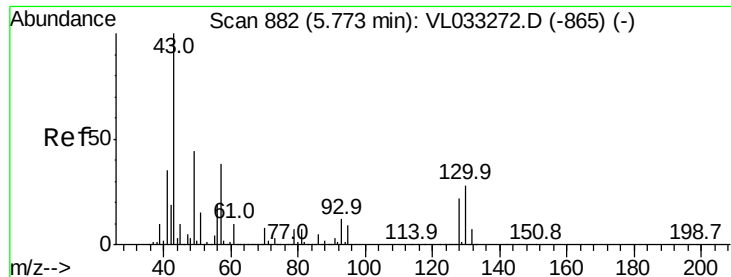


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.525 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.00 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 43 Resp: 115947

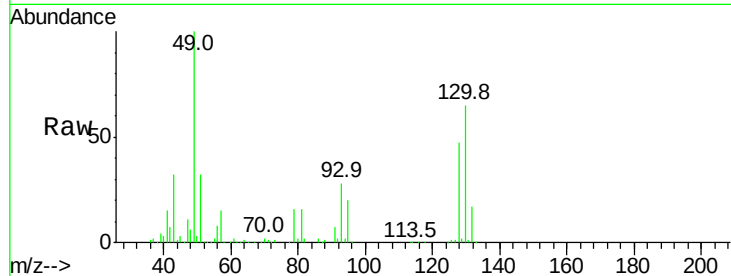
Ion Ratio Lower Upper

43 100

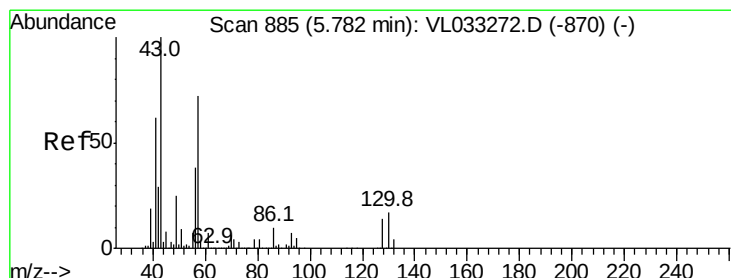
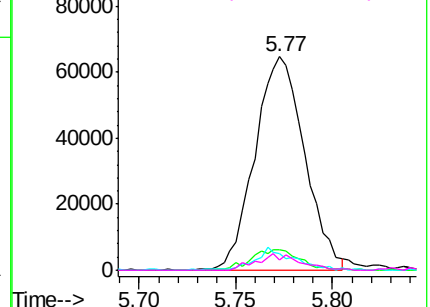
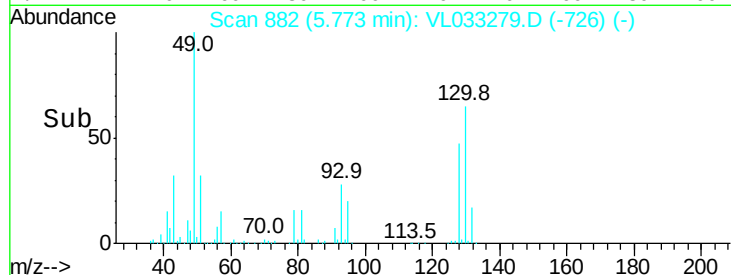
45 9.7 7.8 11.6

61 8.8 7.3 10.9

70 6.7 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: 0.535 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Tgt Ion: 57 Resp: 55198

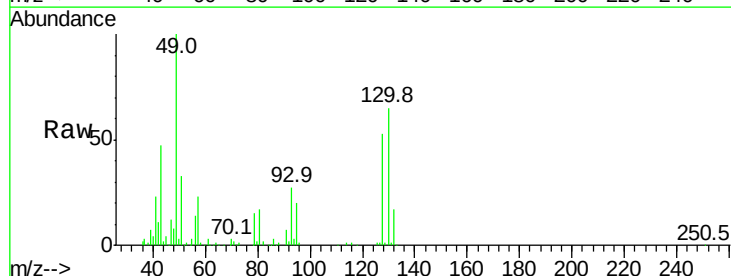
Ion Ratio Lower Upper

57 100

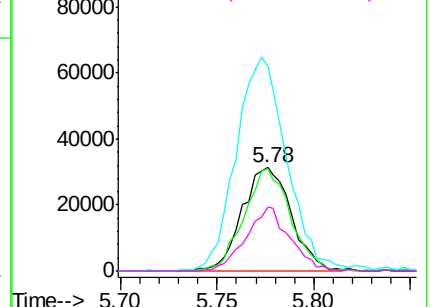
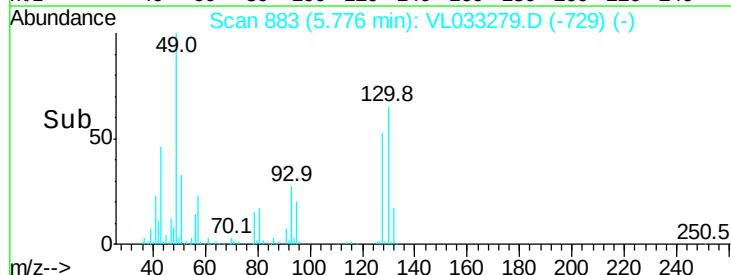
41 94.0 70.7 106.1

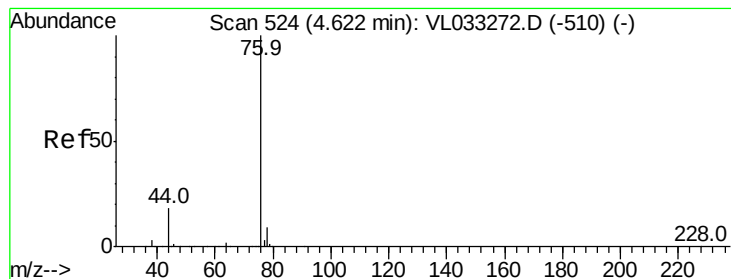
43 217.2 178.6 267.8

56 55.2 41.3 61.9



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: 0.443 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

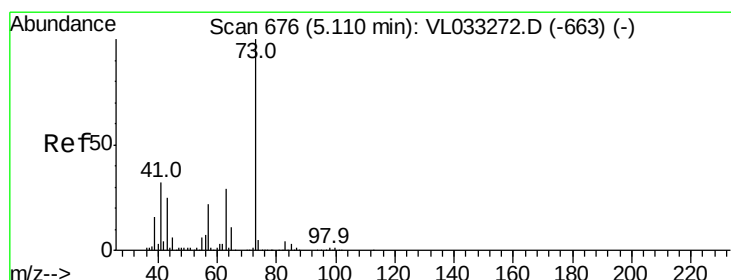
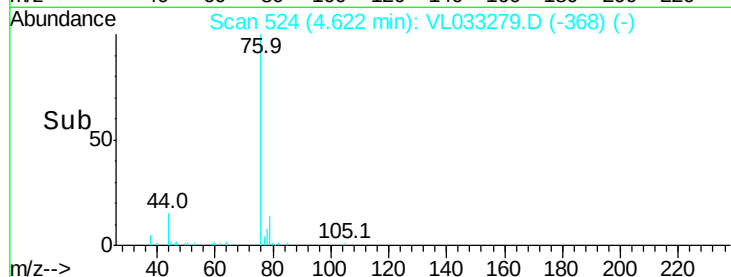
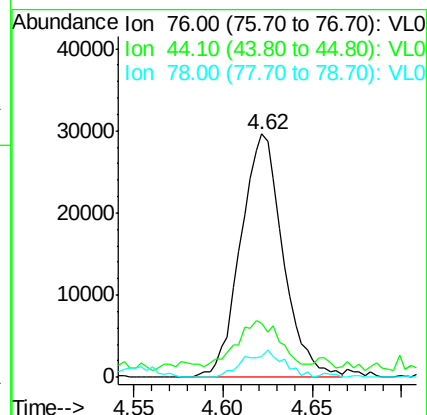
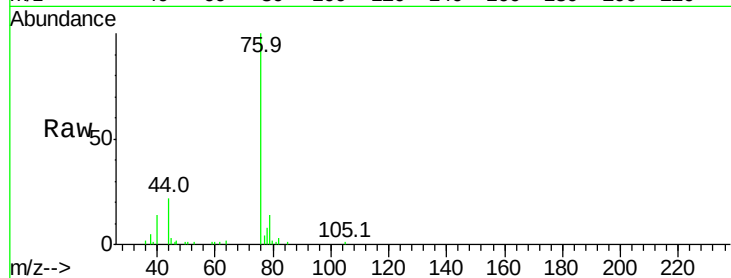
Tgt Ion: 76 Resp: 48973

Ion Ratio Lower Upper

76 100

44 29.6 15.1 22.7#

78 11.0 7.4 11.0



#28

Methyl tert-Butyl Ether

Concen: 0.525 ppbv

RT: 5.12 min Scan# 679

Delta R.T. 0.01 min

Lab File: VL033279.D

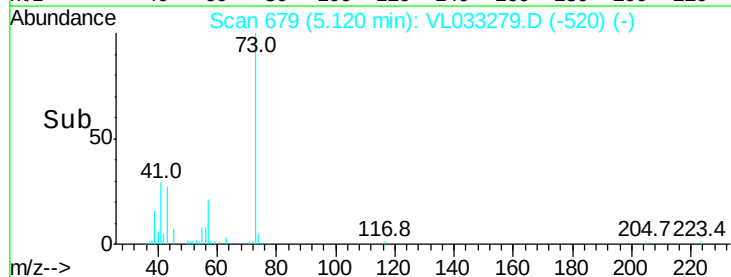
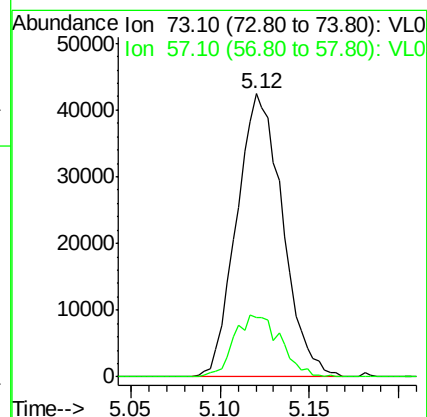
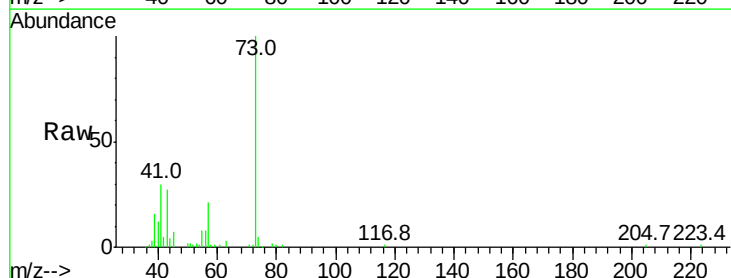
Acq: 12 Mar 2019 9:04

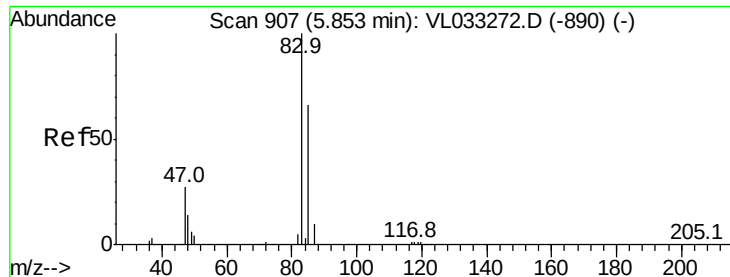
Tgt Ion: 73 Resp: 76002

Ion Ratio Lower Upper

73 100

57 22.1 17.9 26.9





#29

Chloroform

Concen: 0.533 ppbv

RT: 5.84 min Scan# 903

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

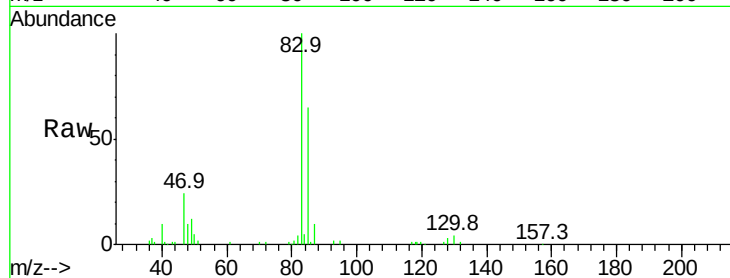
VSTDIC0.5

Tgt Ion: 83 Resp: 83396

Ion Ratio Lower Upper

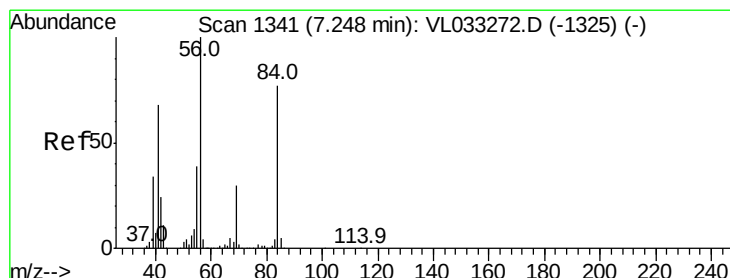
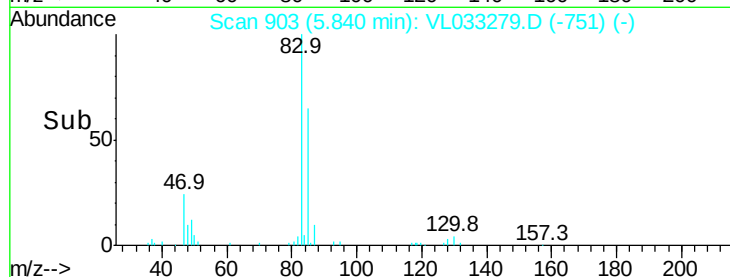
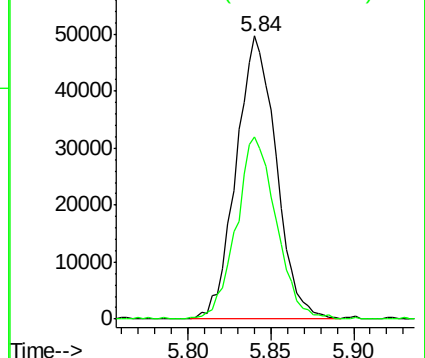
83 100

85 65.6 52.5 78.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 0.138 ppbv

RT: 7.24 min Scan# 1339

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

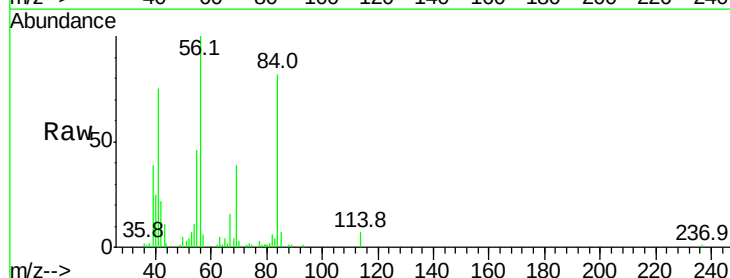
Tgt Ion: 84 Resp: 10835

Ion Ratio Lower Upper

84 100

56 0.0 112.0 168.0#

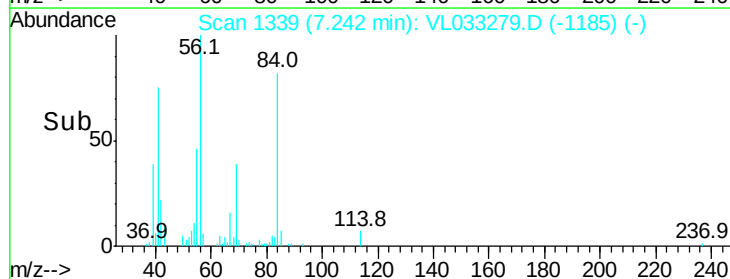
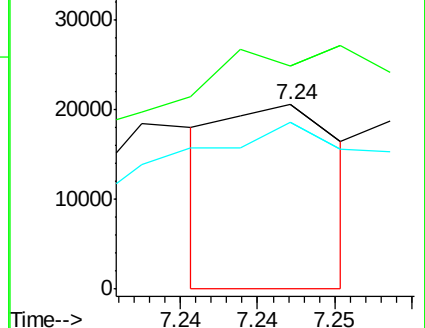
41 326.1 69.9 104.9#

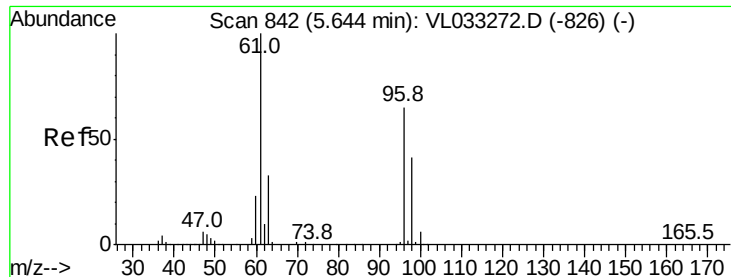


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

cis-1,2-Dichloroethene

Concen: 0.518 ppbv

RT: 5.63 min Scan# 839

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

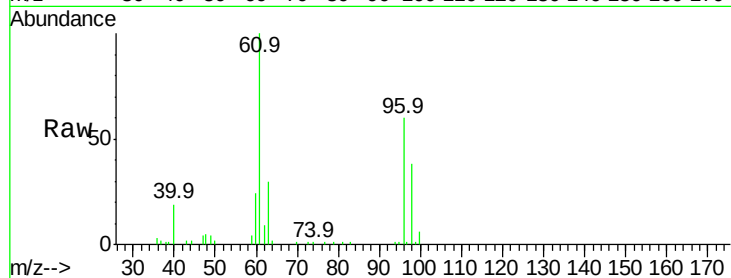
Tgt Ion: 61 Resp: 50768

Ion Ratio Lower Upper

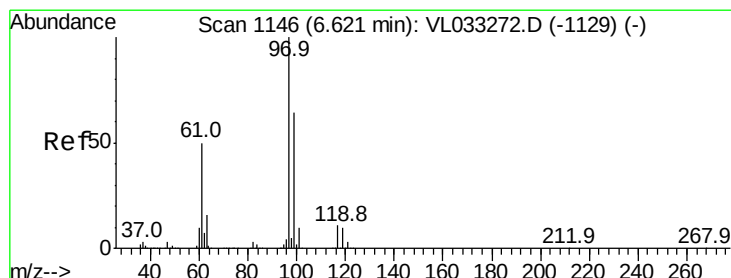
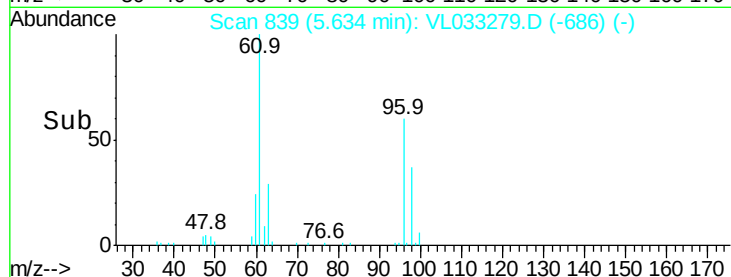
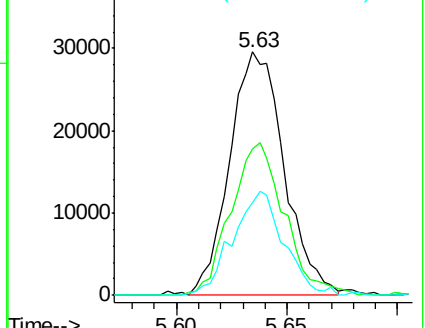
61 100

96 60.0 51.8 77.8

98 38.1 32.9 49.3



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



#32

1,1,1-Trichloroethane

Concen: 0.269 ppbv

RT: 6.62 min Scan# 1144

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

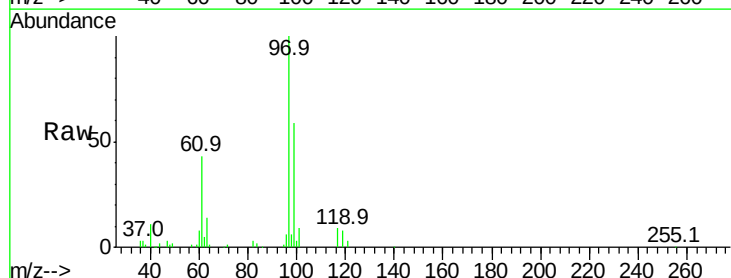
Tgt Ion: 97 Resp: 41128

Ion Ratio Lower Upper

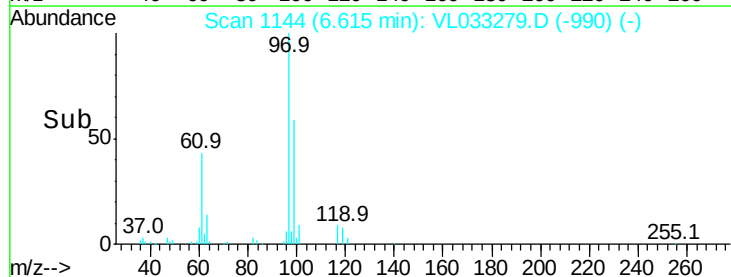
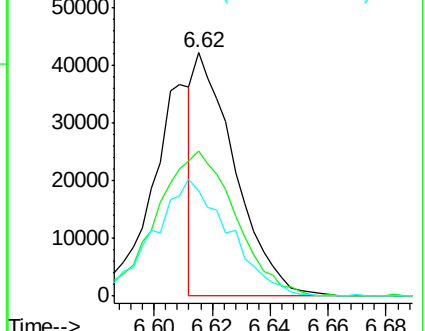
97 100

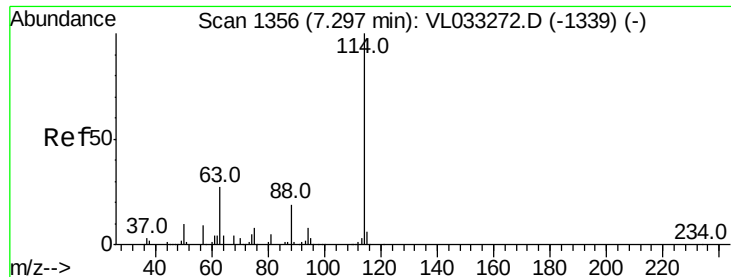
99 116.3 51.7 77.5#

61 90.4 39.7 59.5#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0

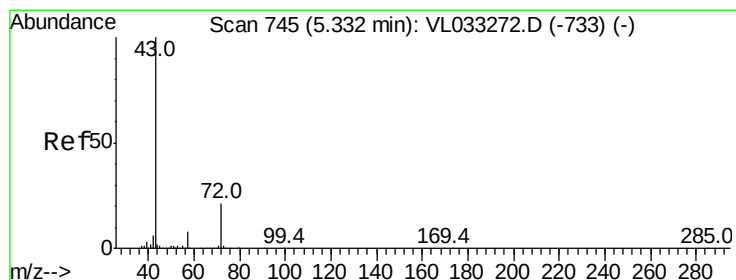
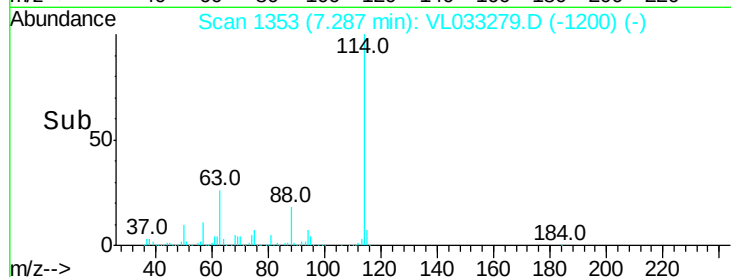
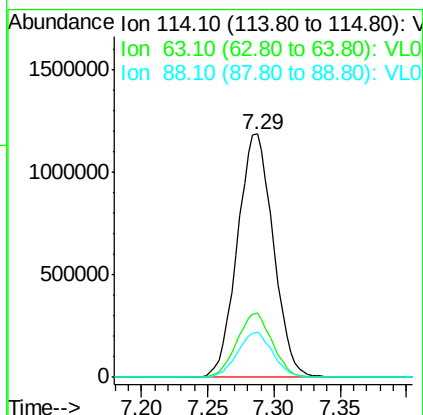
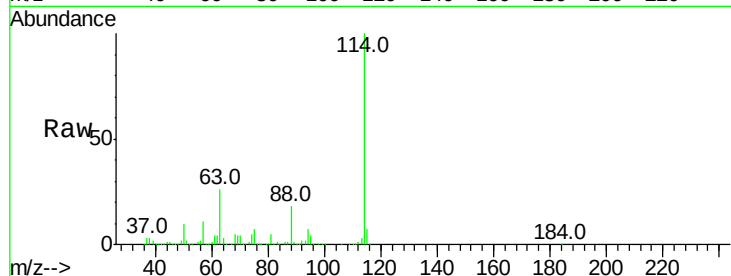




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

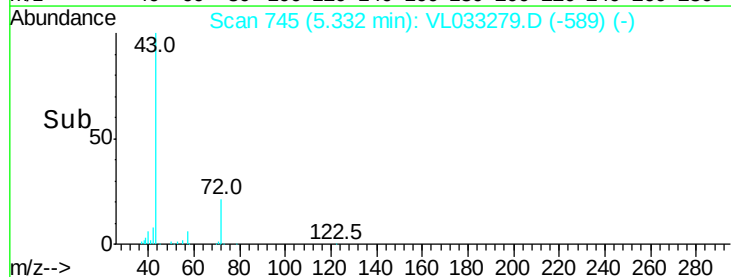
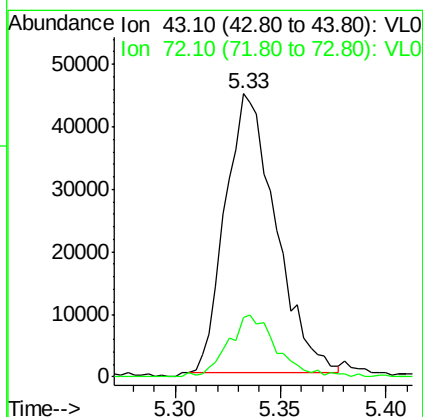
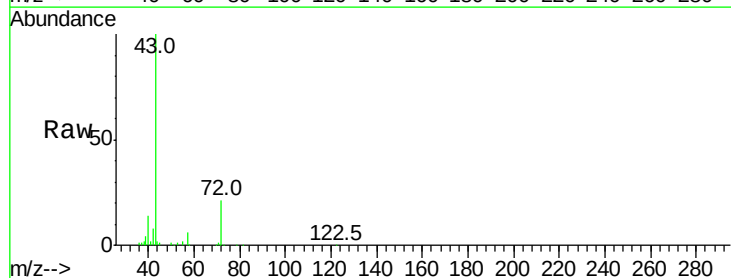
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

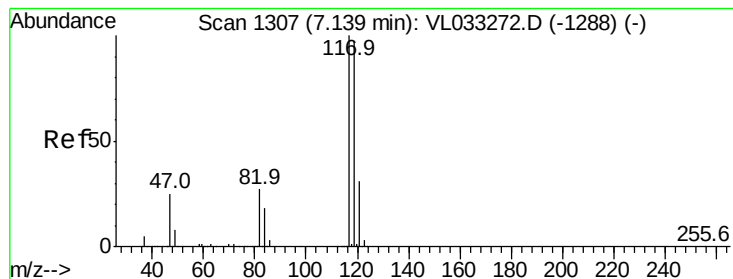
Tgt Ion:114 Resp: 2231893
 Ion Ratio Lower Upper
 114 100
 63 26.0 21.5 32.3
 88 18.2 14.6 22.0



#34
 2-Butanone
 Concen: 0.504 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.00 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion: 43 Resp: 74531
 Ion Ratio Lower Upper
 43 100
 72 21.3 17.0 25.6





#35

Carbon Tetrachloride

Concen: 0.460 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

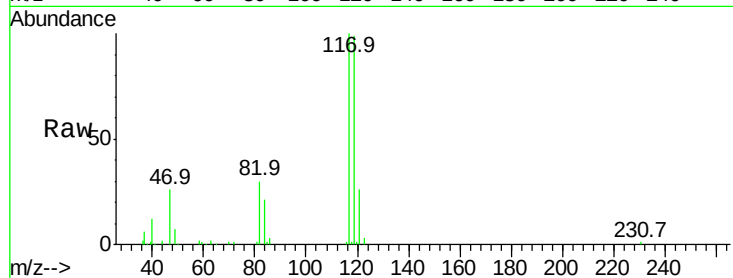
Tgt Ion:117 Resp: 75035

Ion Ratio Lower Upper

117 100

119 99.1 77.4 116.0

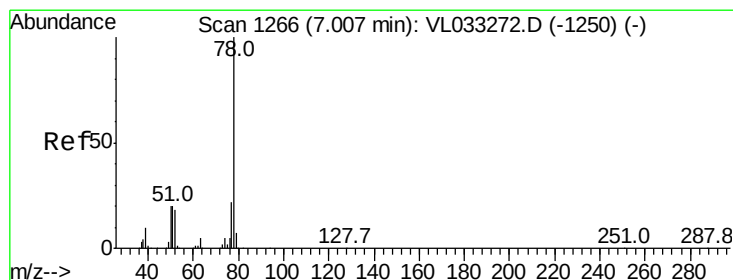
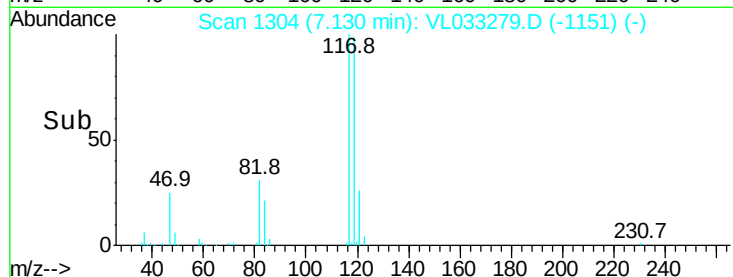
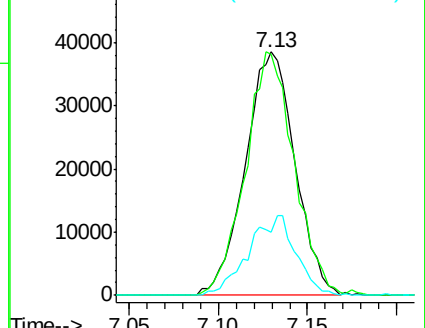
121 25.8 24.9 37.3



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: 0.514 ppbv

RT: 7.00 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

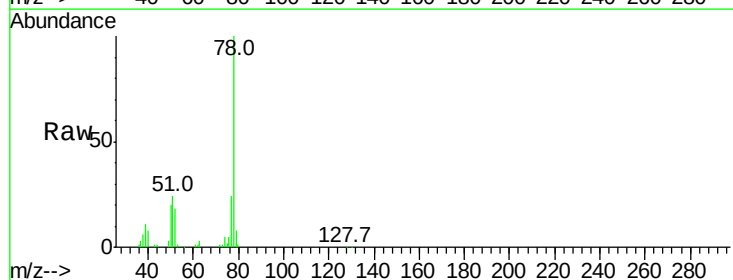
Tgt Ion: 78 Resp: 104938

Ion Ratio Lower Upper

78 100

77 23.9 17.7 26.5

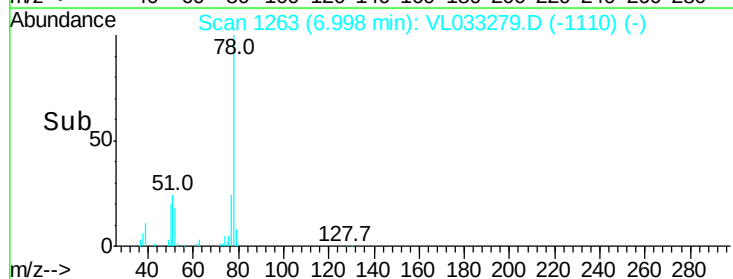
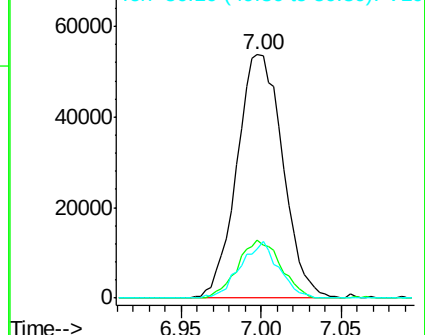
50 20.3 15.7 23.5

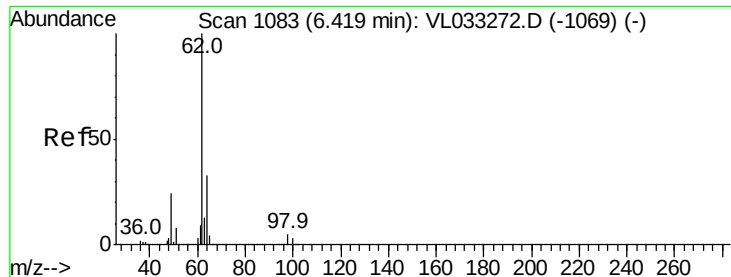


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

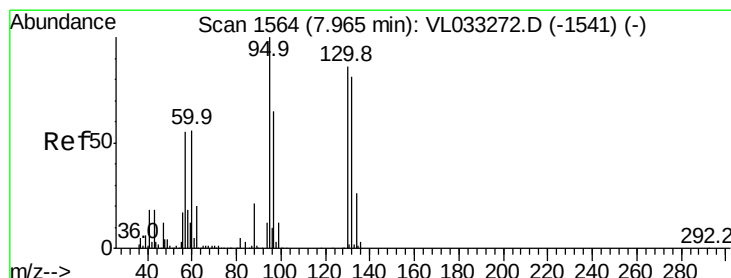
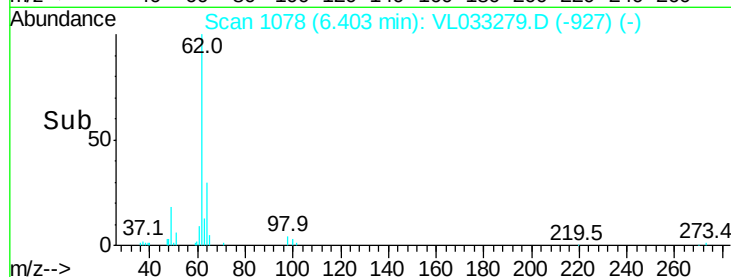
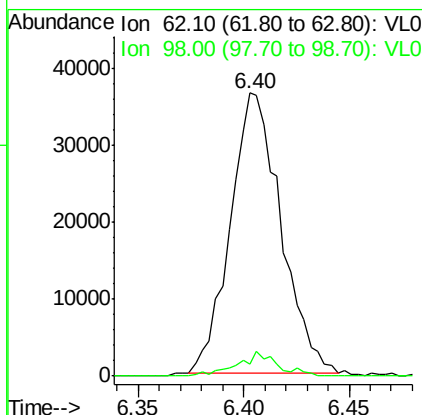
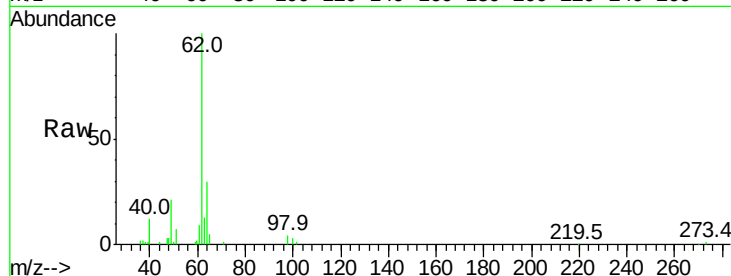




#37
 1,2-Dichloroethane
 Concen: 0.486 ppbv
 RT: 6.40 min Scan# 1078
 Delta R.T. -0.02 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

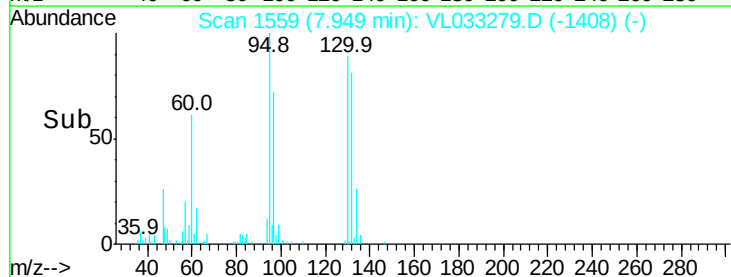
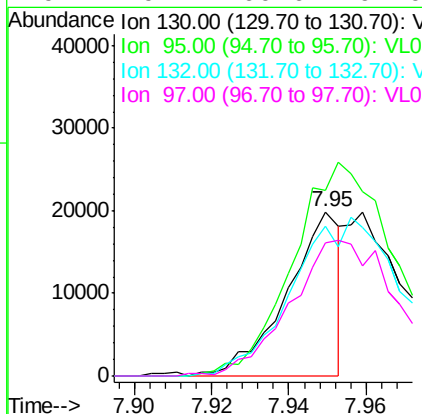
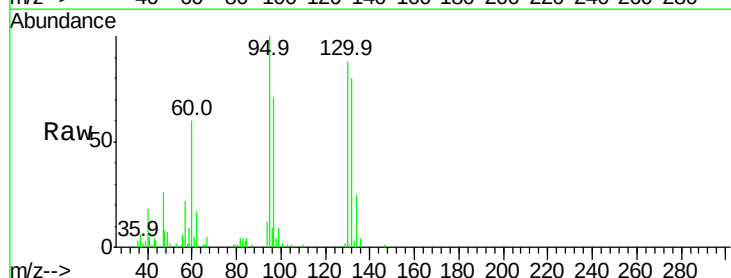
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

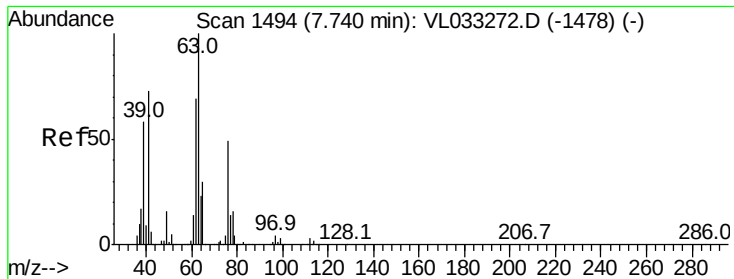
Tgt Ion: 62 Resp: 60830
 Ion Ratio Lower Upper
 62 100
 98 6.9 4.5 6.7#



#38
 Trichloroethene
 Concen: 0.238 ppbv
 RT: 7.95 min Scan# 1559
 Delta R.T. -0.02 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion: 130 Resp: 19006
 Ion Ratio Lower Upper
 130 100
 95 113.6 93.3 139.9
 132 94.5 75.4 113.2
 97 79.4 60.6 91.0





#39

1,2-Dichloropropane

Concen: 0.505 ppbv

RT: 7.73 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

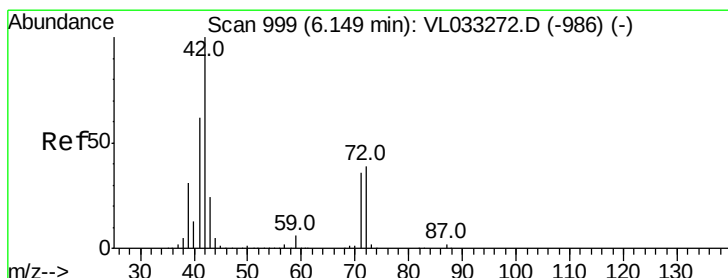
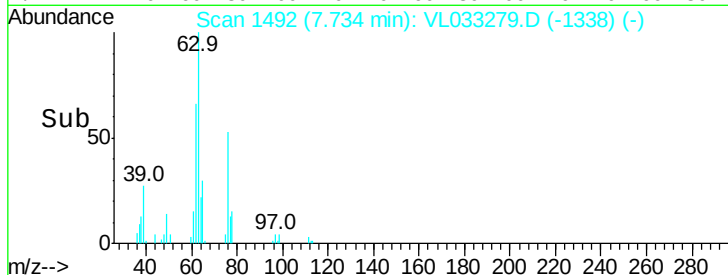
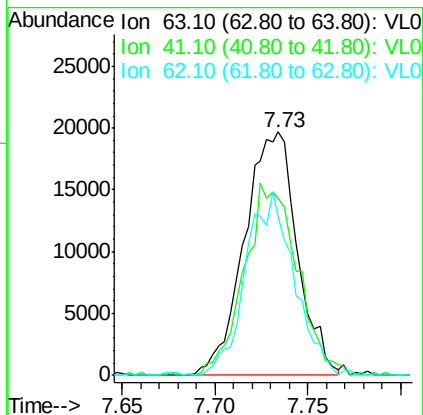
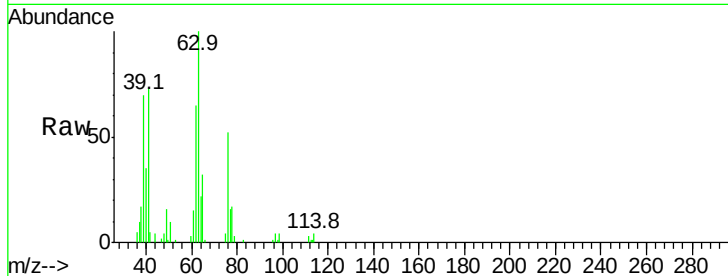
Tgt Ion: 63 Resp: 39102

Ion Ratio Lower Upper

63 100

41 72.9 58.3 87.5

62 65.3 55.3 82.9



#41

Tetrahydrofuran

Concen: 0.473 ppbv

RT: 6.17 min Scan# 1004

Delta R.T. 0.02 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

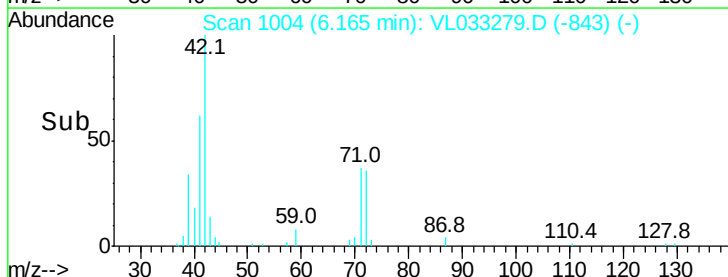
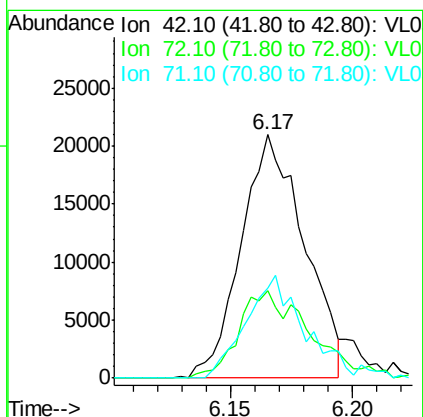
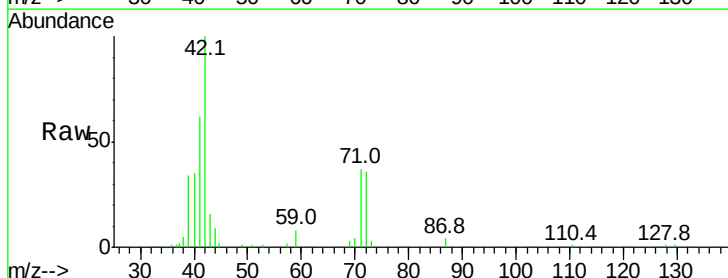
Tgt Ion: 42 Resp: 37671

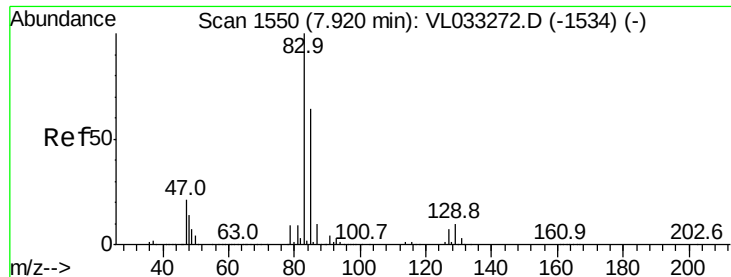
Ion Ratio Lower Upper

42 100

72 41.4 30.6 46.0

71 40.1 29.7 44.5





#42

Bromodichloromethane

Concen: 0.486 ppbv

RT: 7.91 min Scan# 1547

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

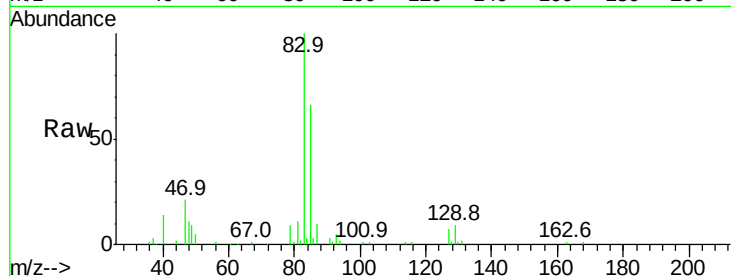
Tgt Ion: 83 Resp: 82731

Ion Ratio Lower Upper

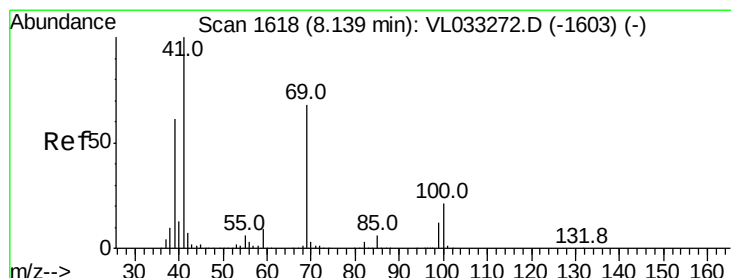
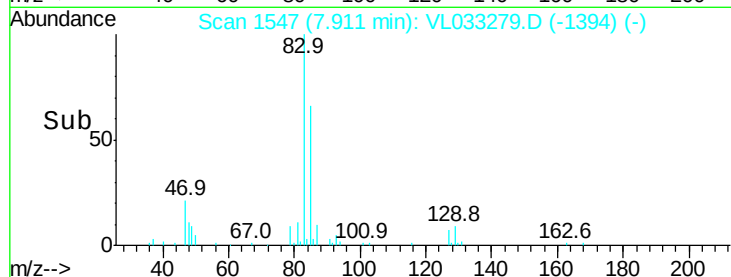
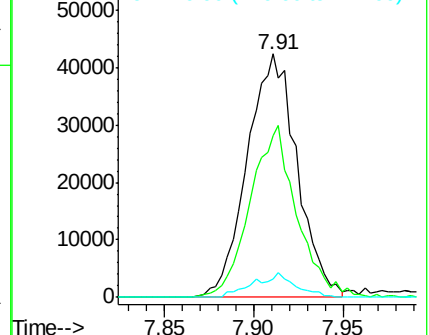
83 100

85 66.4 51.0 76.4

127 7.5 6.0 9.0



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): VL0



#43

Methyl Methacrylate

Concen: 0.500 ppbv

RT: 8.14 min Scan# 1617

Delta R.T. -0.00 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

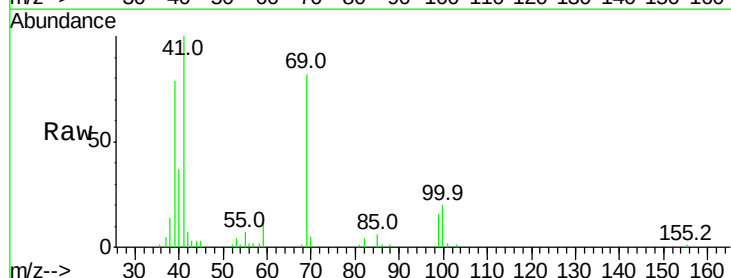
Tgt Ion: 69 Resp: 39449

Ion Ratio Lower Upper

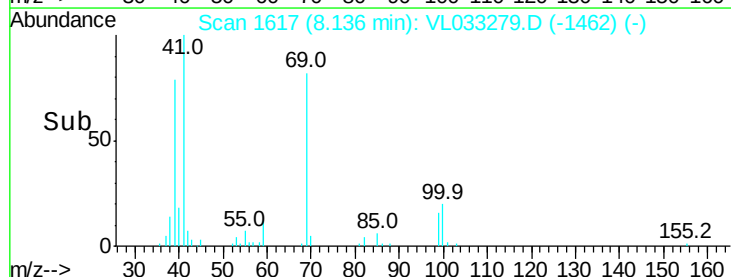
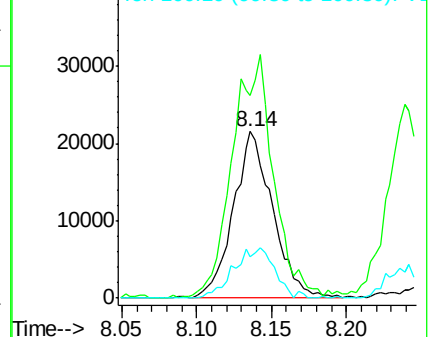
69 100

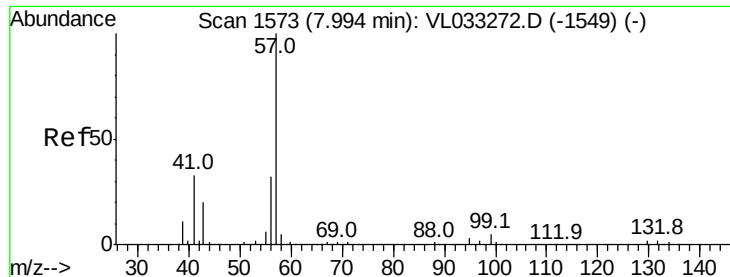
41 154.2 121.0 181.4

100 31.4 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: 0.520 ppbv

RT: 7.99 min Scan# 1571

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

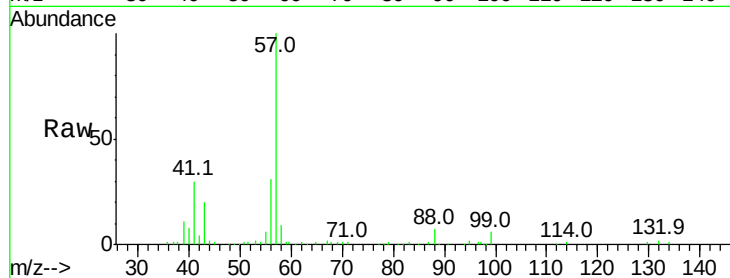
Tgt Ion: 57 Resp: 181191

Ion Ratio Lower Upper

57 100

41 31.8 26.2 39.2

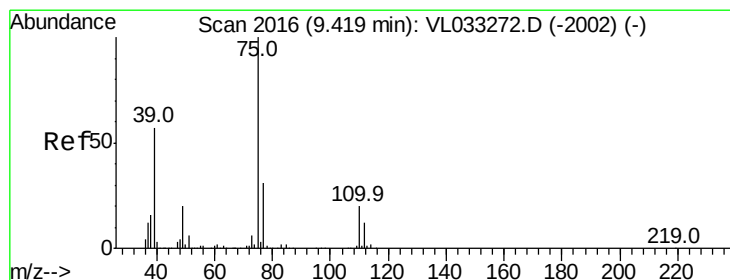
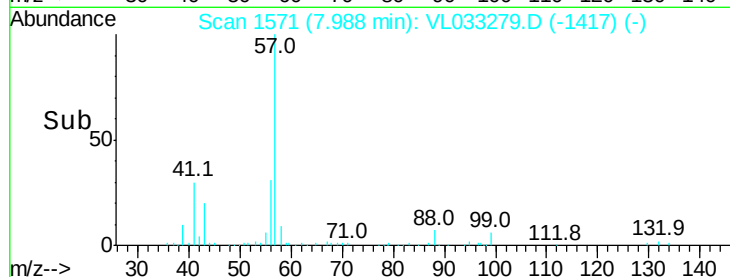
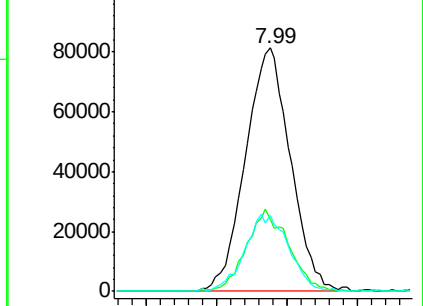
56 31.0 24.8 37.2



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: 0.427 ppbv

RT: 9.41 min Scan# 2013

Delta R.T. -0.01 min

Lab File: VL033279.D

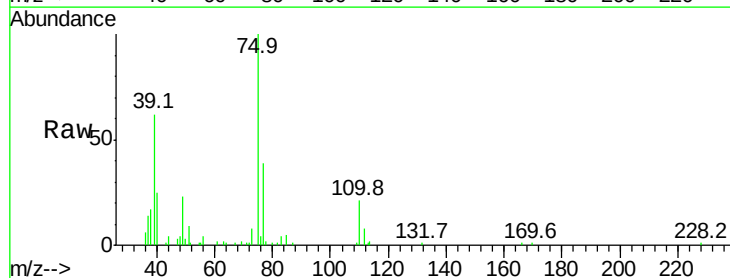
Acq: 12 Mar 2019 9:04

Tgt Ion: 75 Resp: 41562

Ion Ratio Lower Upper

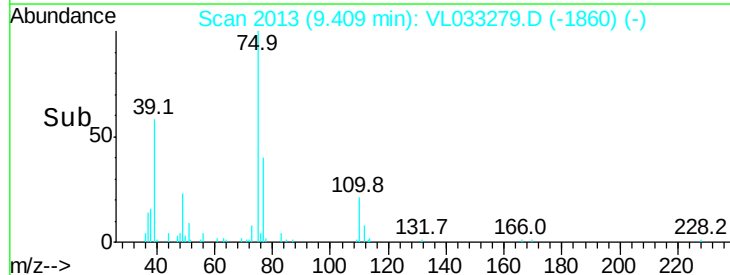
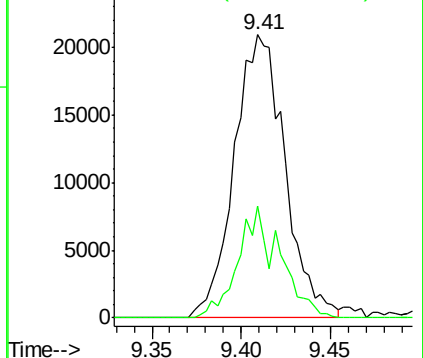
75 100

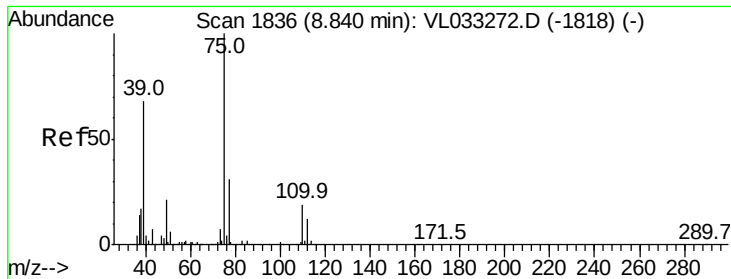
77 41.0 24.4 36.6#



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

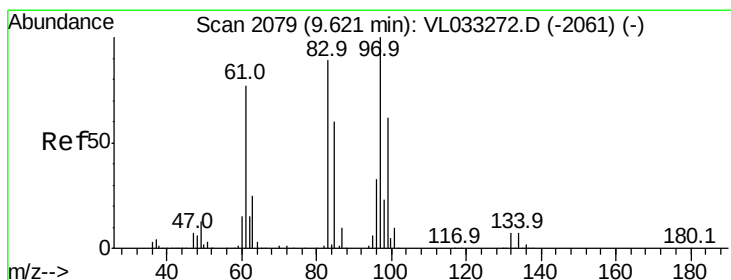
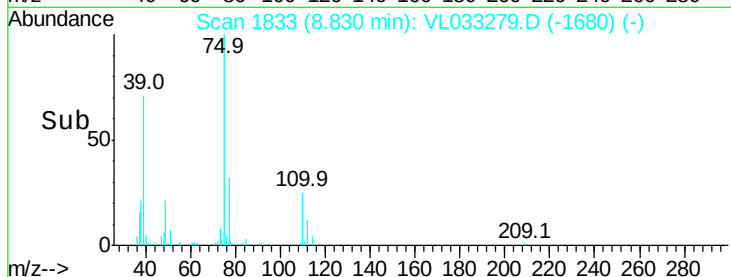
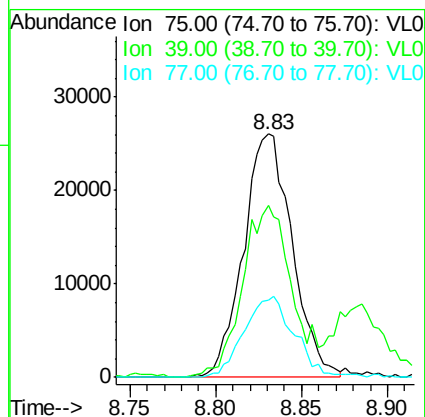
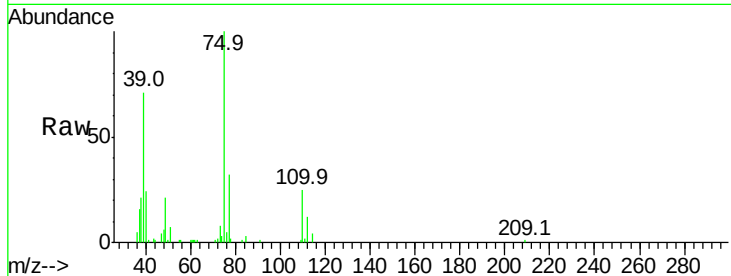




#46
 cis-1,3-Dichloropropene
 Concen: 0.448 ppbv
 RT: 8.83 min Scan# 1833
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

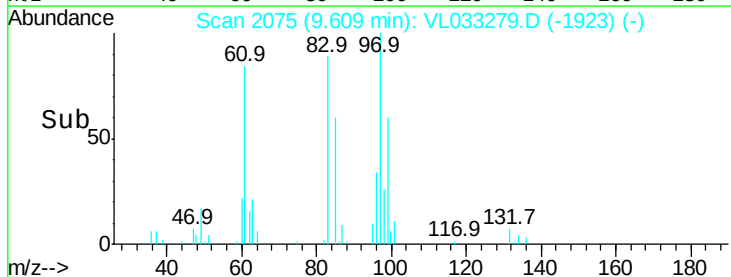
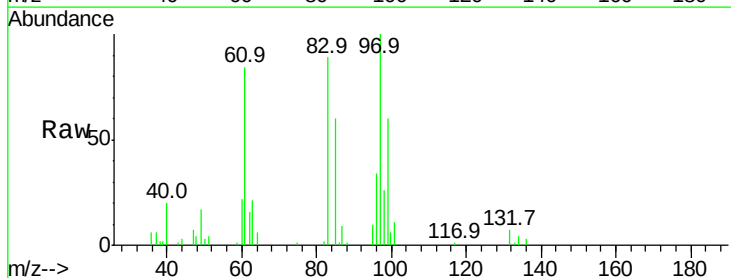
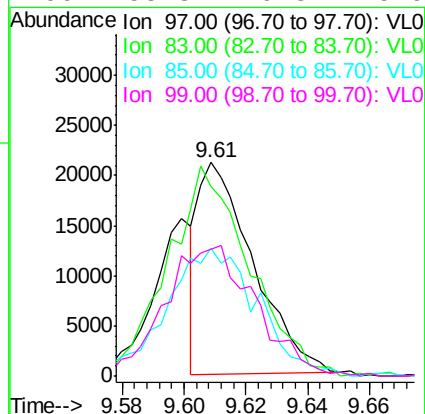
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

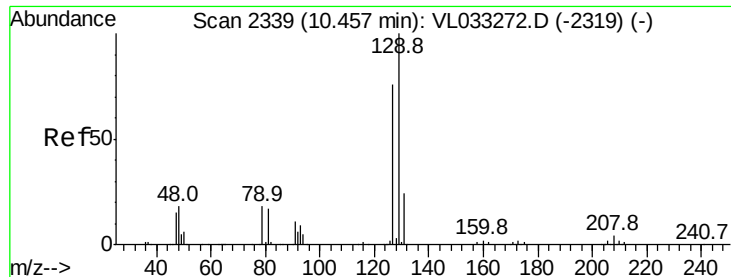
Tgt Ion: 75 Resp: 51222
 Ion Ratio Lower Upper
 75 100
 39 69.8 54.2 81.2
 77 31.9 24.5 36.7



#47
 1,1,2-Trichloroethane
 Concen: 0.310 ppbv
 RT: 9.61 min Scan# 2075
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion: 97 Resp: 25838
 Ion Ratio Lower Upper
 97 100
 83 90.0 71.0 106.4
 85 58.9 48.2 72.4
 99 58.8 49.3 73.9

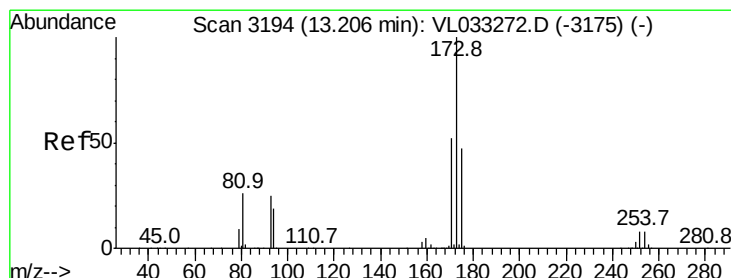
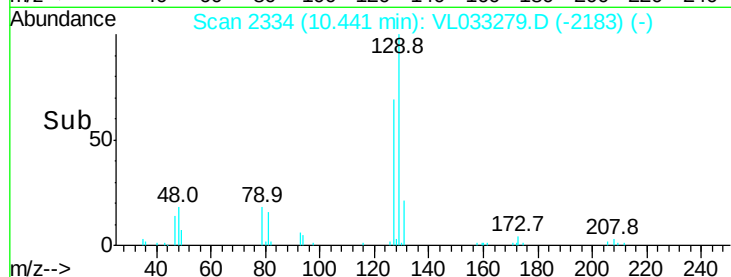
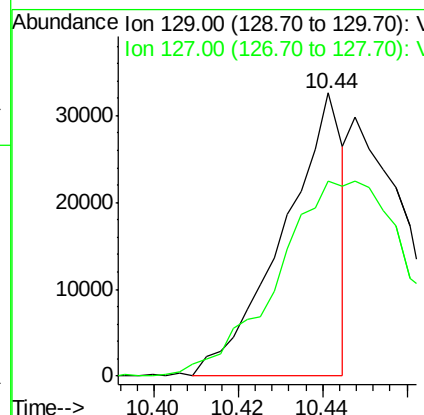
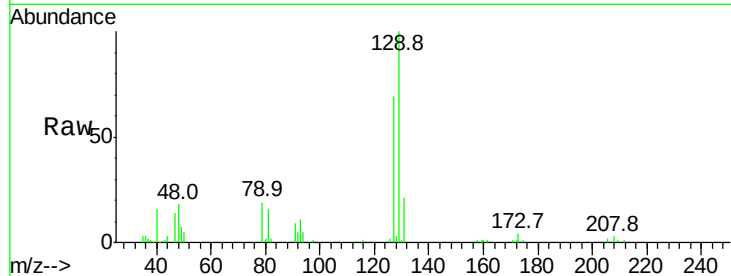




#48
 Dibromochloromethane
 Concen: 0.238 ppbv
 RT: 10.44 min Scan# 2334
 Delta R.T. -0.02 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

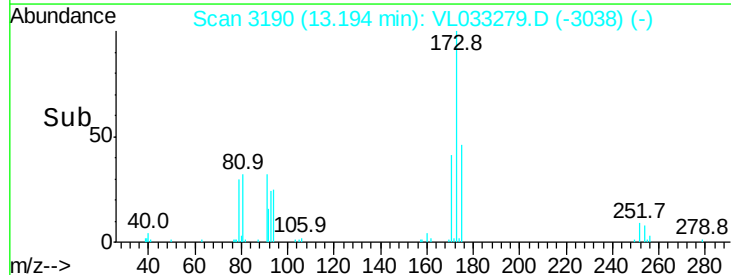
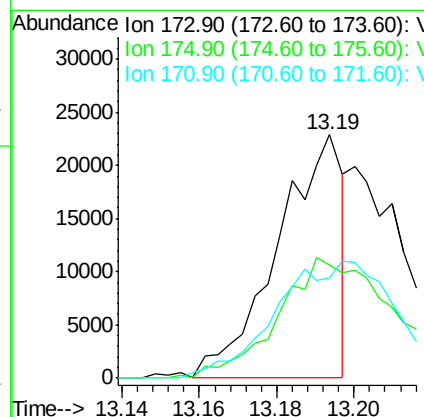
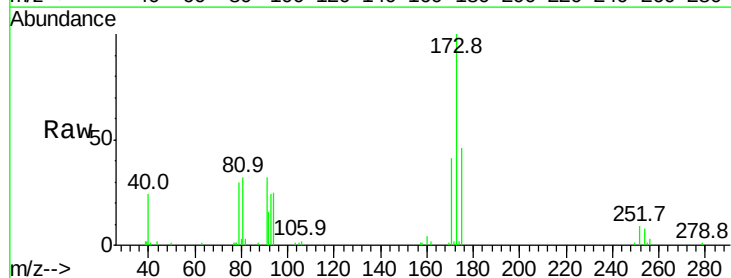
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

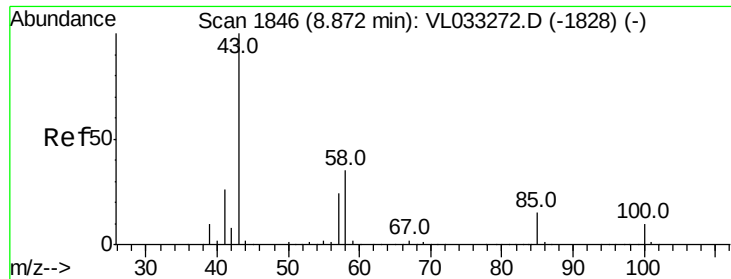
Tgt Ion:129 Resp: 32145
 Ion Ratio Lower Upper
 129 100
 127 153.1 38.9 116.6#



#49
 Bromoform
 Concen: 0.247 ppbv
 RT: 13.19 min Scan# 3190
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion:173 Resp: 26816
 Ion Ratio Lower Upper
 173 100
 175 88.2 39.0 58.6#
 171 0.0 41.2 61.8#

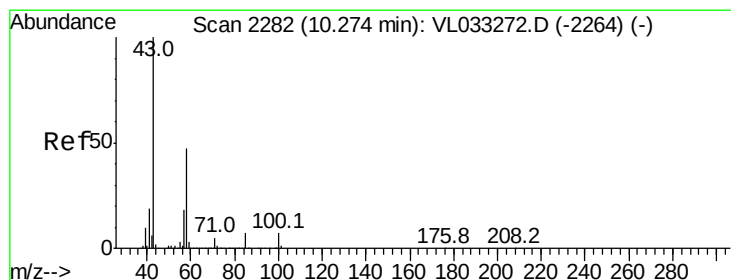
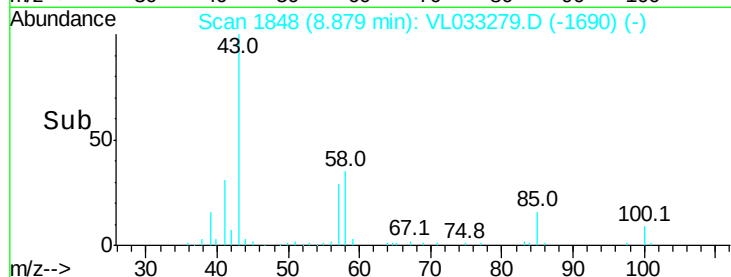
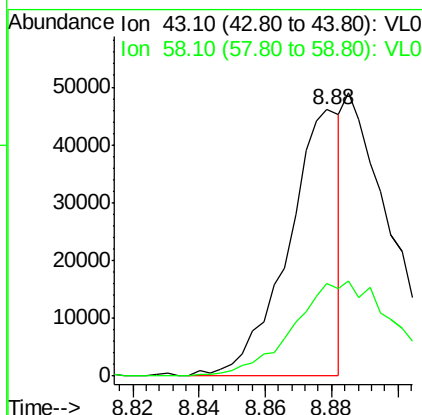
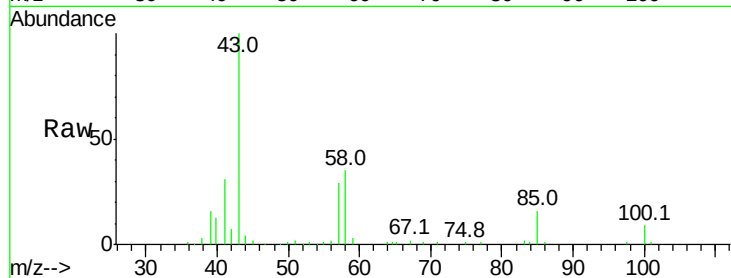




#50
 4-Methyl-2-Pentanone
 Concen: 0.242 ppbv
 RT: 8.88 min Scan# 1848
 Delta R.T. 0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

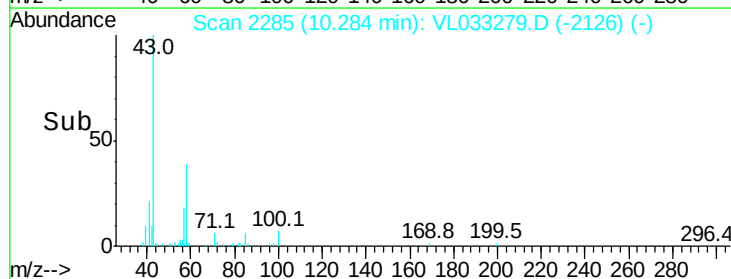
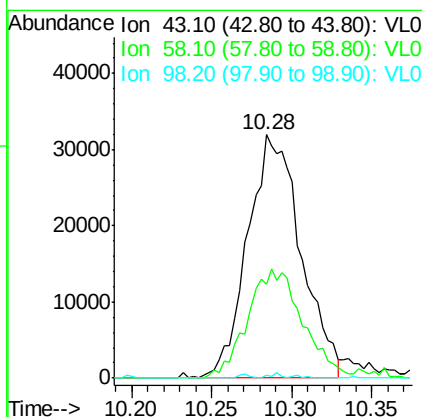
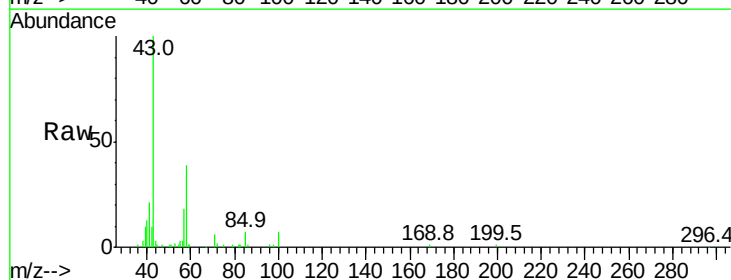
Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC0.5

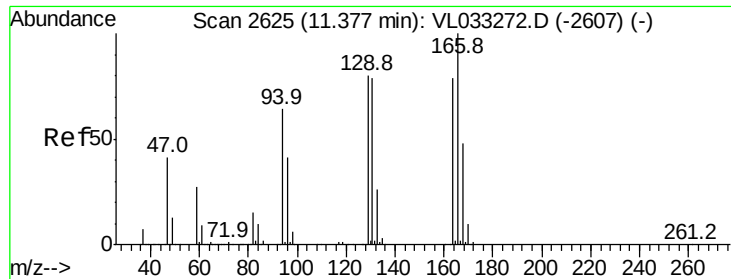
Tgt Ion: 43 Resp: 50679
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.0 42.0#



#51
 2-Hexanone
 Concen: 0.463 ppbv
 RT: 10.28 min Scan# 2285
 Delta R.T. 0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion: 43 Resp: 73239
 Ion Ratio Lower Upper
 43 100
 58 47.0 38.1 57.1
 98 0.6 0.1 0.1#





#52

Tetrachloroethene

Concen: 0.523 ppbv

RT: 11.37 min Scan# 2622

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:164 Resp: 39390

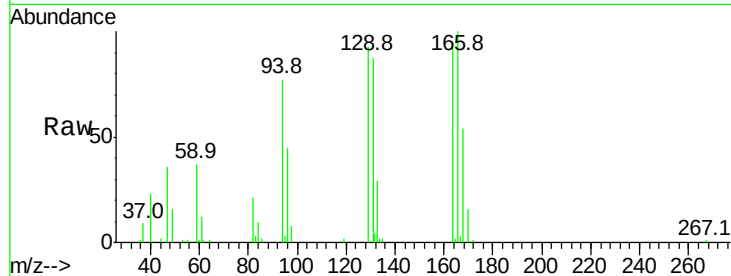
Ion Ratio Lower Upper

164 100

166 105.2 100.8 151.2

129 96.6 80.6 121.0

131 91.3 79.2 118.8

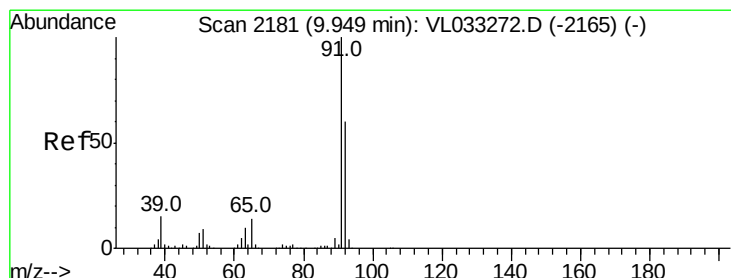
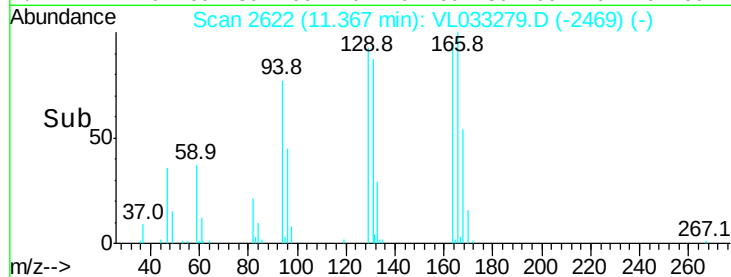
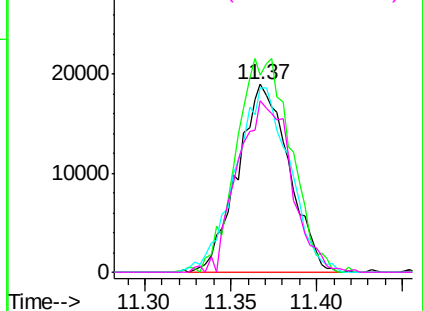


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.518 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033279.D

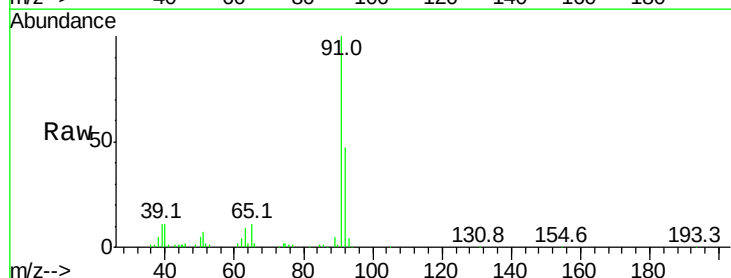
Acq: 12 Mar 2019 9:04

Tgt Ion: 91 Resp: 119695

Ion Ratio Lower Upper

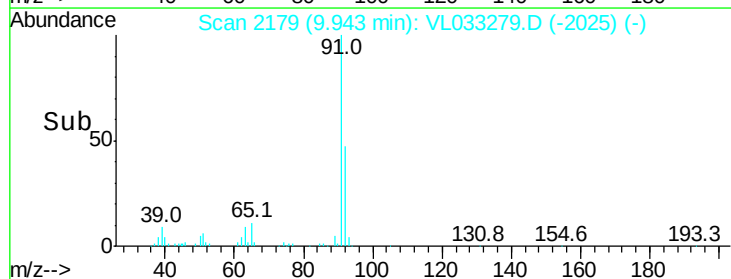
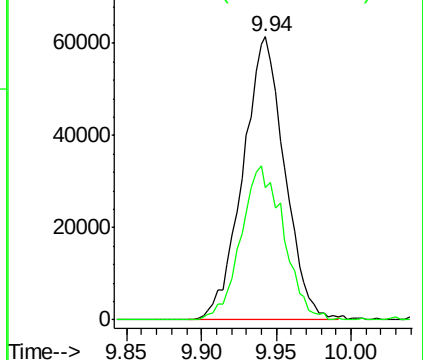
91 100

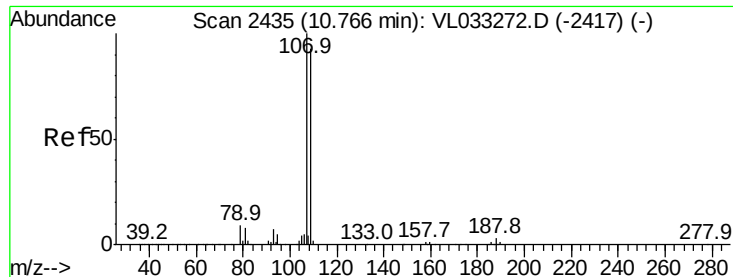
92 55.4 47.8 71.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#54

1,2-Dibromoethane

Concen: 0.495 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

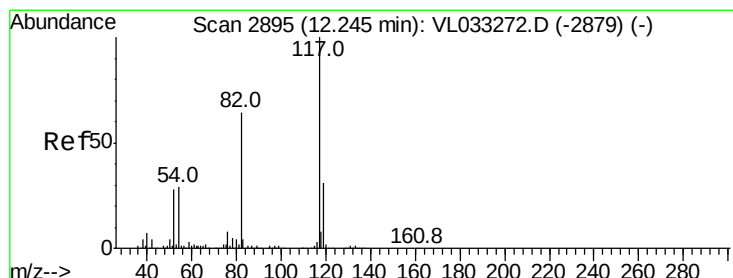
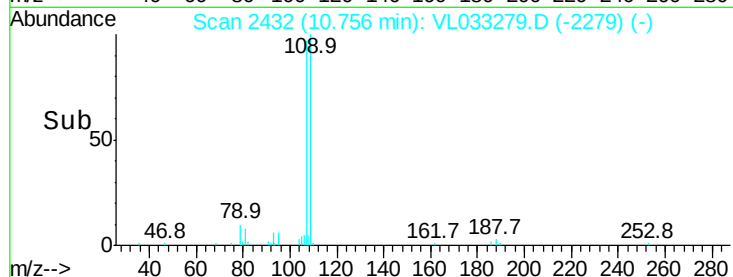
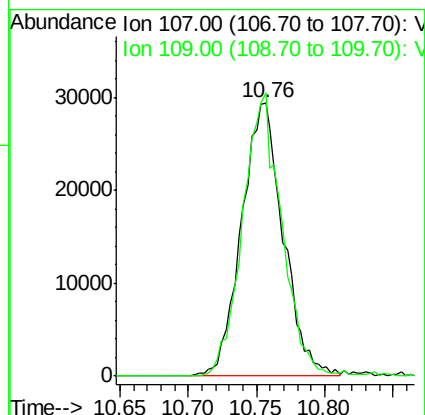
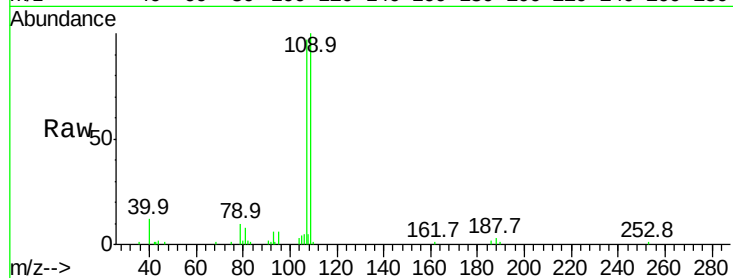
VSTDIC0.5

Tgt Ion:107 Resp: 62486

Ion Ratio Lower Upper

107 100

109 103.6 74.2 111.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

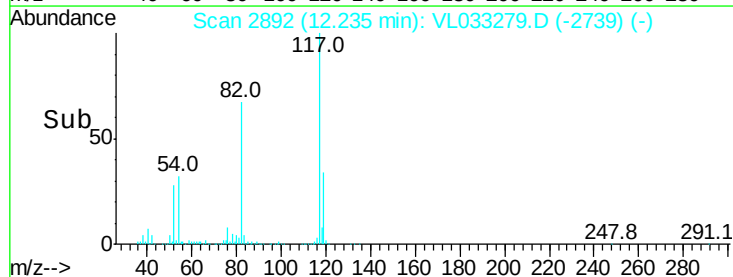
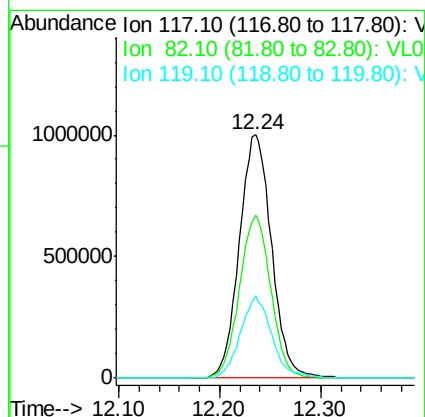
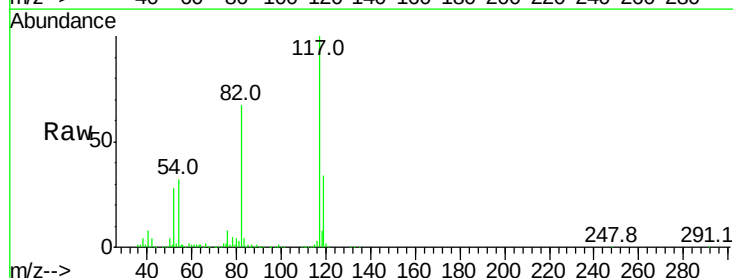
Tgt Ion:117 Resp: 2217532

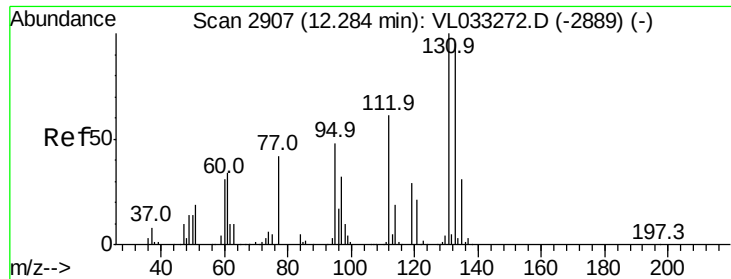
Ion Ratio Lower Upper

117 100

82 65.4 51.1 76.7

119 33.0 43.6 65.4#





#56

1,1,1,2-Tetrachloroethane

Concen: 0.272 ppbv

RT: 12.28 min Scan# 2905

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

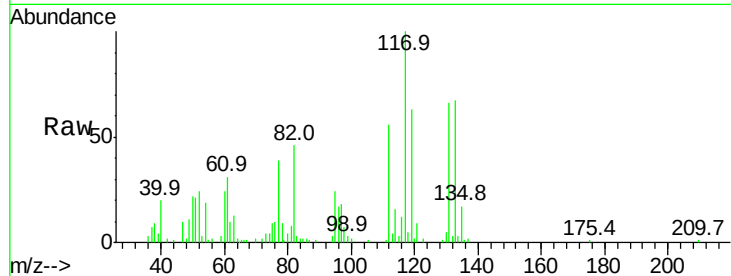
Tgt Ion:131 Resp: 25432

Ion Ratio Lower Upper

131 100

133 179.6 76.2 114.4#

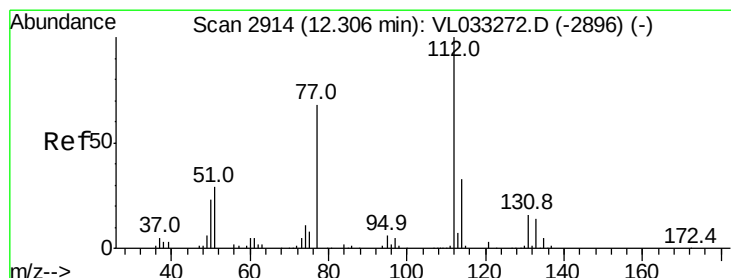
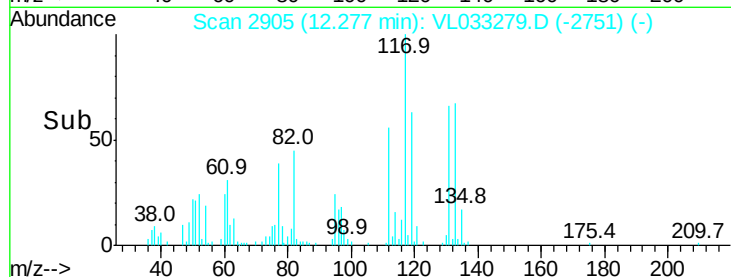
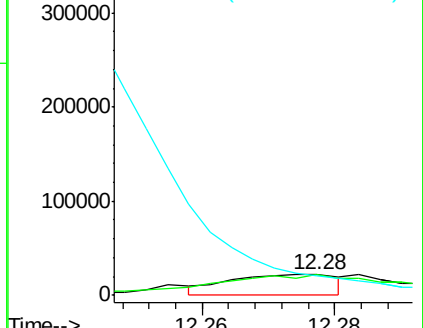
119 0.0 110.3 165.5#



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: 0.543 ppbv

RT: 12.30 min Scan# 2911

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

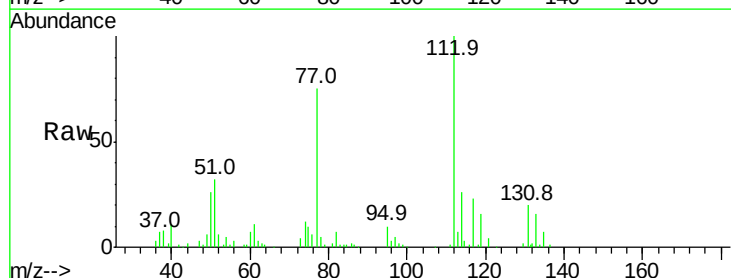
Tgt Ion:112 Resp: 90673

Ion Ratio Lower Upper

112 100

77 71.3 55.8 83.8

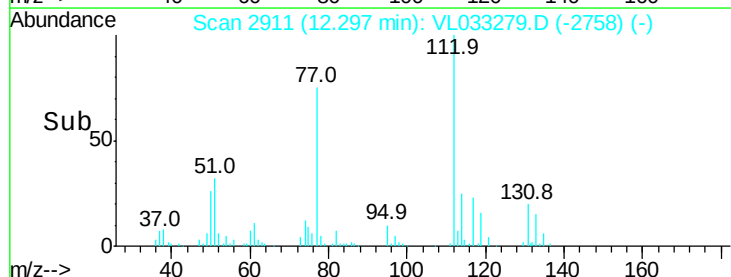
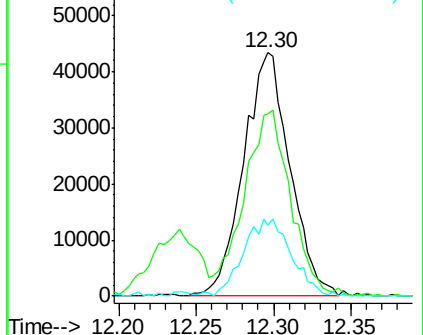
114 28.7 29.5 36.1#

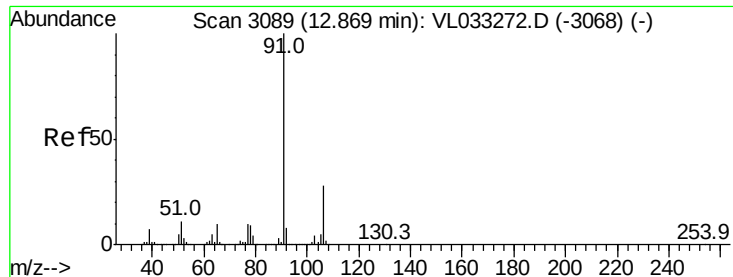


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): V

Ion 114.10 (113.80 to 114.80): V





#58

Ethyl Benzene

Concen: 0.254 ppbv

RT: 12.86 min Scan# 3085

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

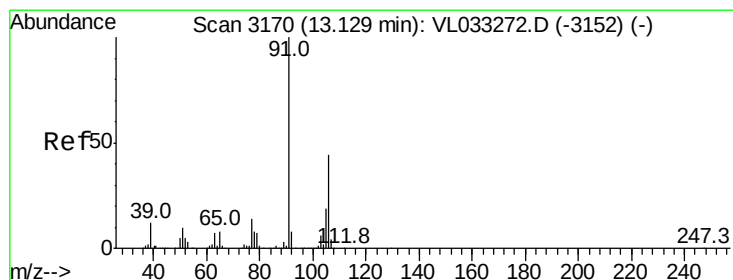
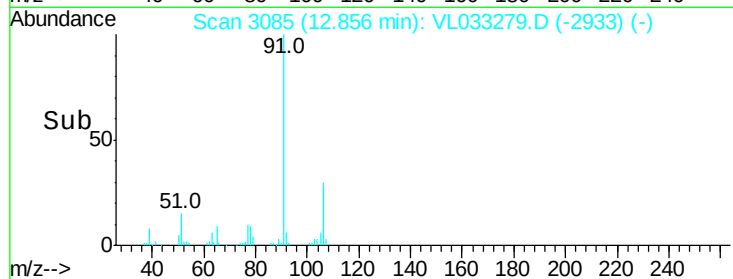
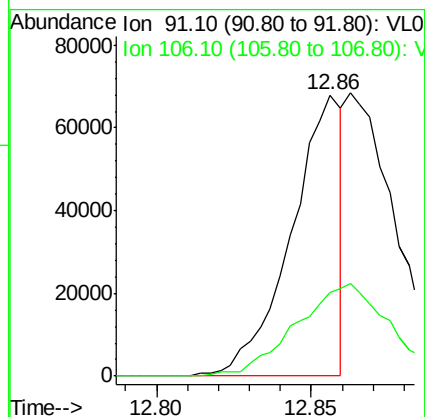
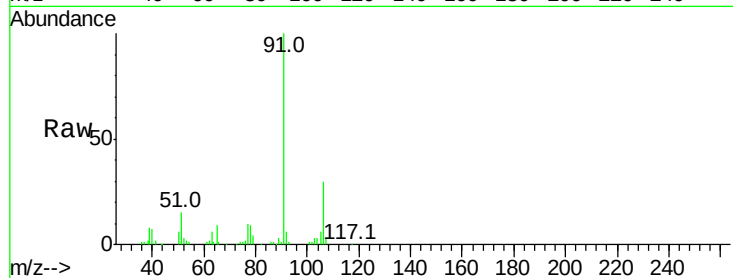
VSTDIC0.5

Tgt Ion: 91 Resp: 77086

Ion Ratio Lower Upper

91 100

106 29.6 22.5 33.7



#59

m/p-Xylene

Concen: 0.450 ppbv

RT: 13.12 min Scan# 3166

Delta R.T. -0.01 min

Lab File: VL033279.D

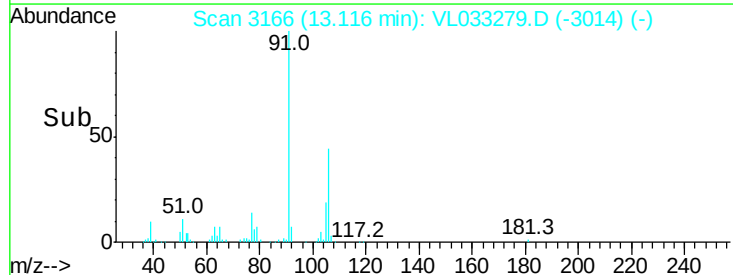
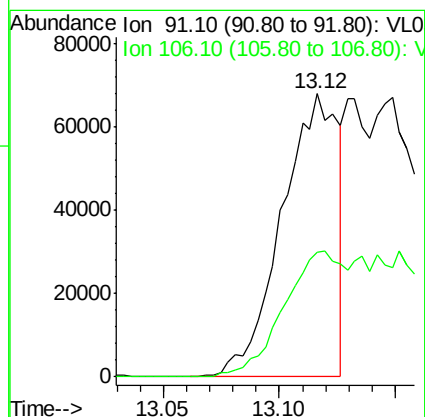
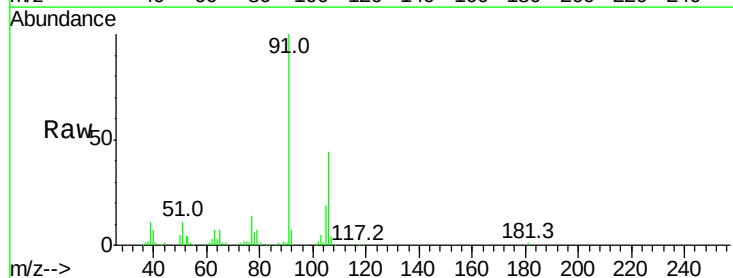
Acq: 12 Mar 2019 9:04

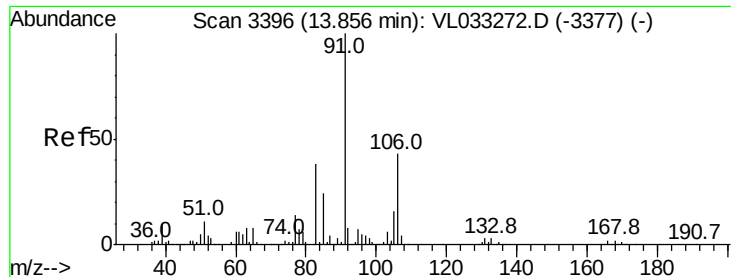
Tgt Ion: 91 Resp: 114447

Ion Ratio Lower Upper

91 100

106 0.0 35.5 53.3#





#60

o-Xylene

Concen: 0.520 ppbv

RT: 13.85 min Scan# 3393

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

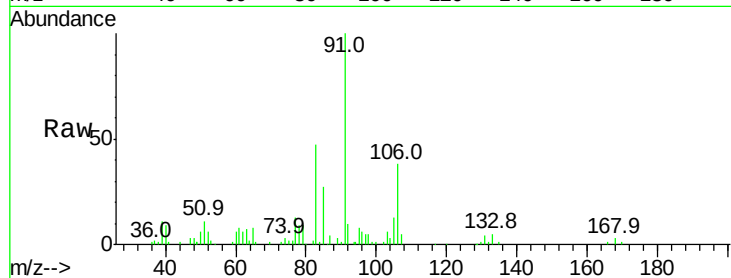
VSTDIC0.5

Tgt Ion: 91 Resp: 127358

Ion Ratio Lower Upper

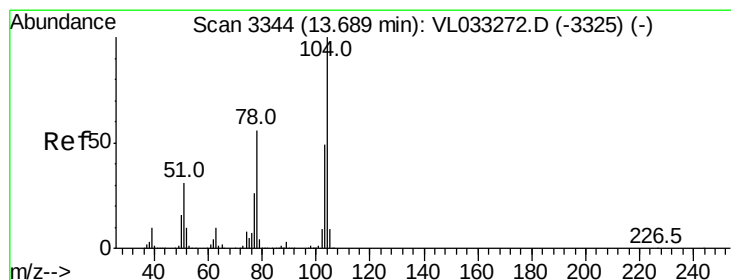
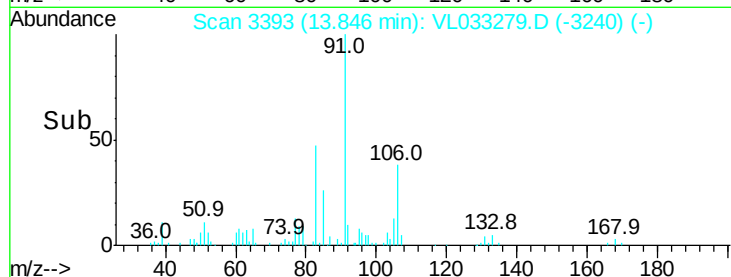
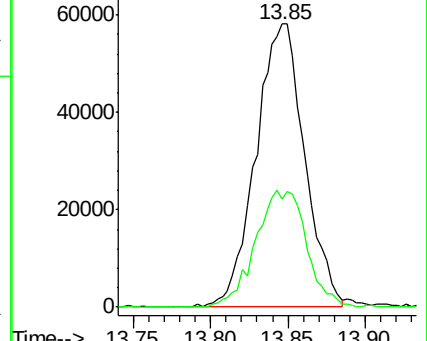
91 100

106 43.2 21.3 63.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#61

Styrene

Concen: 0.277 ppbv

RT: 13.68 min Scan# 3341

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

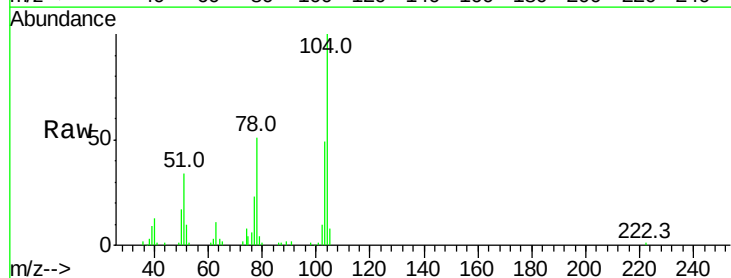
Tgt Ion: 104 Resp: 47262

Ion Ratio Lower Upper

104 100

78 0.0 43.3 64.9#

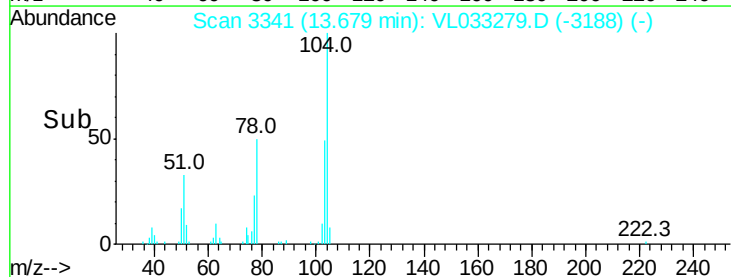
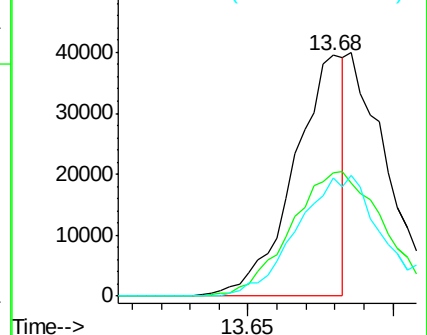
103 0.0 38.0 57.0#

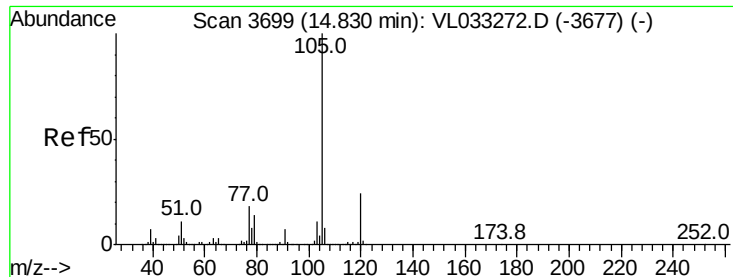


Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V





#62

Isopropylbenzene

Concen: 0.516 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

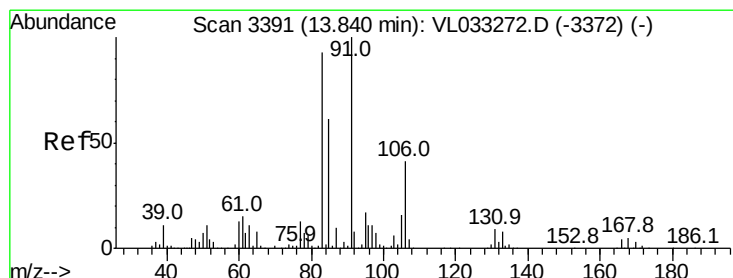
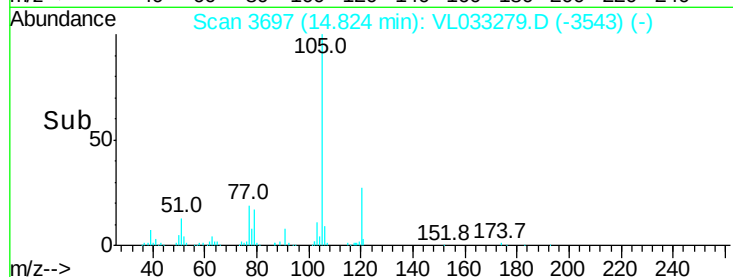
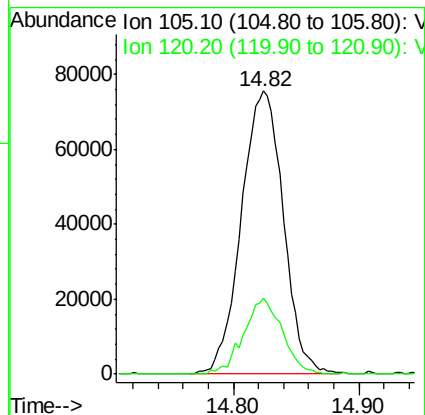
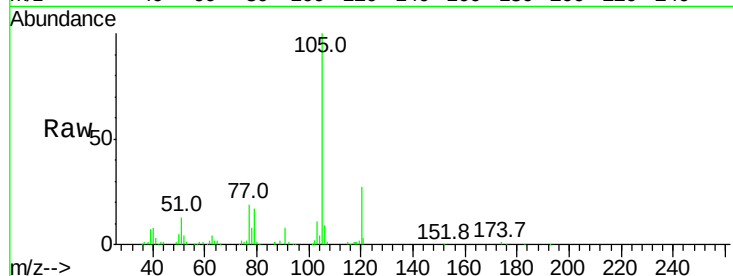
VSTDIC0.5

Tgt Ion:105 Resp: 175688

Ion Ratio Lower Upper

105 100

120 24.9 20.0 30.0



#63

1,1,2,2-Tetrachloroethane

Concen: 0.319 ppbv

RT: 13.83 min Scan# 3389

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

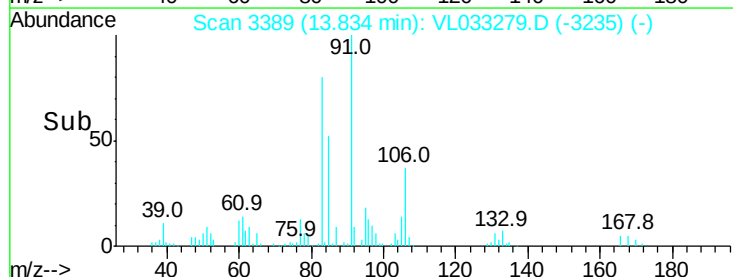
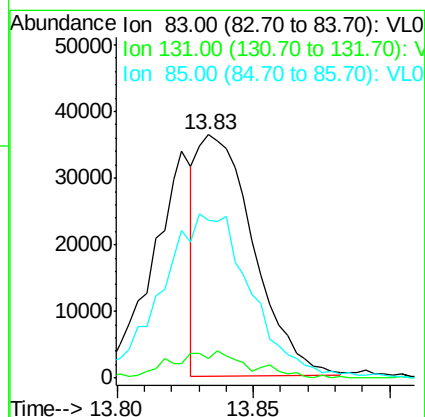
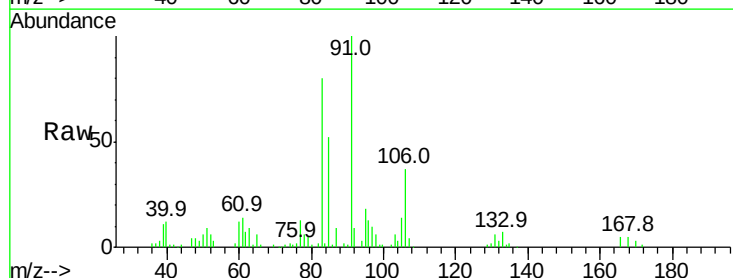
Tgt Ion: 83 Resp: 51841

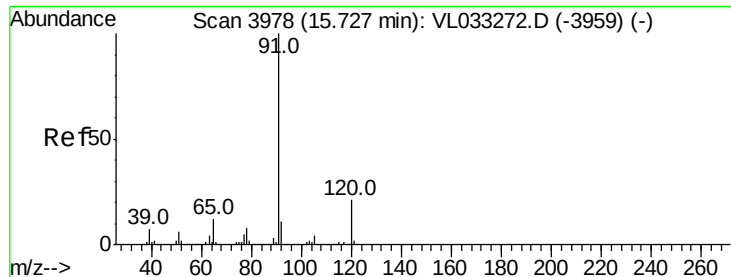
Ion Ratio Lower Upper

83 100

131 15.8 4.5 13.7#

85 109.3 32.2 96.6#

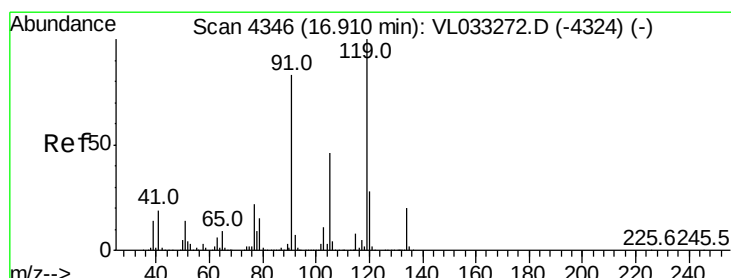
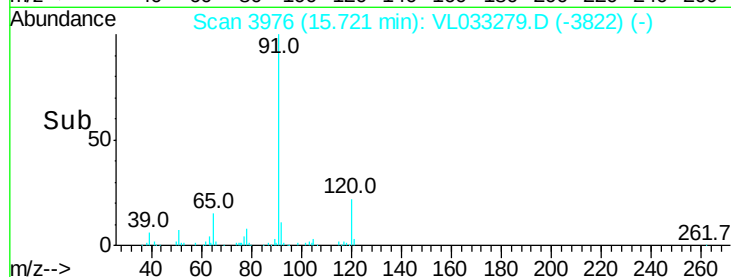
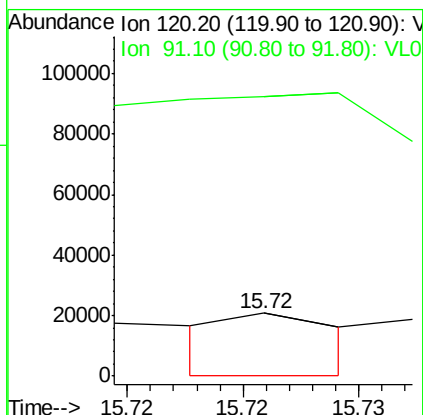
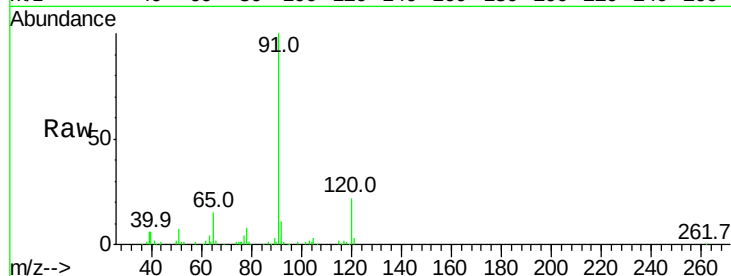




#64
n-propylbenzene
Concen: 0.086 ppbv
RT: 15.72 min Scan# 3976
Delta R.T. -0.01 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

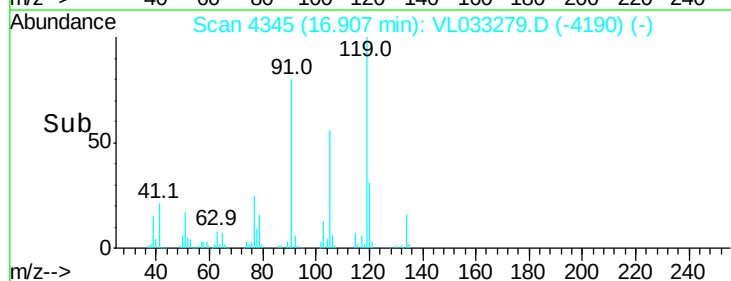
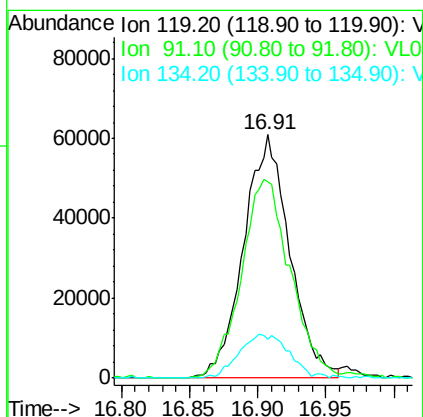
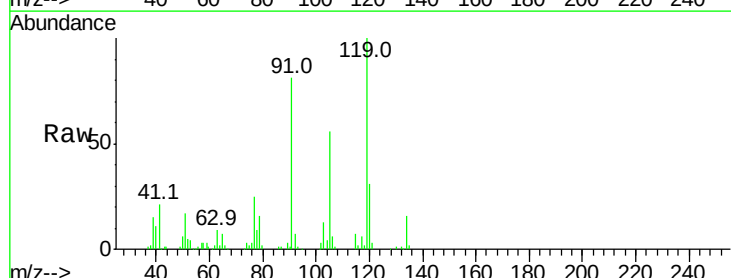
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

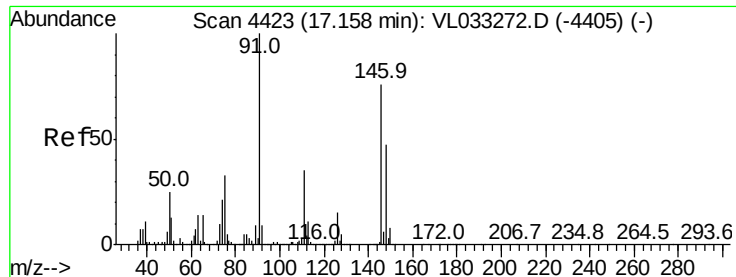
Tgt Ion:120 Resp: 7114
Ion Ratio Lower Upper
120 100
91 0.0 385.8 578.8#



#65
tert-Butylbenzene
Concen: 0.496 ppbv
RT: 16.91 min Scan# 4345
Delta R.T. -0.00 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Tgt Ion:119 Resp: 142690
Ion Ratio Lower Upper
119 100
91 88.0 67.3 100.9
134 20.0 15.4 23.2





#66

Benzyl Chloride

Concen: 0.136 ppbv

RT: 17.15 min Scan# 4419

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

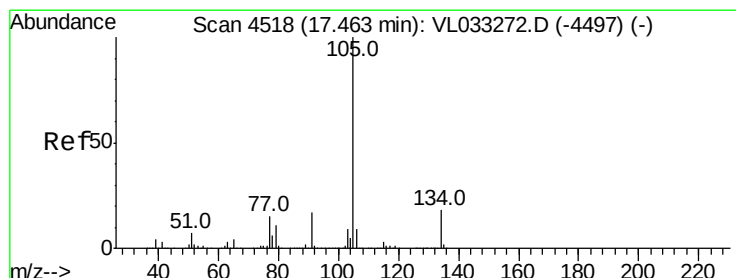
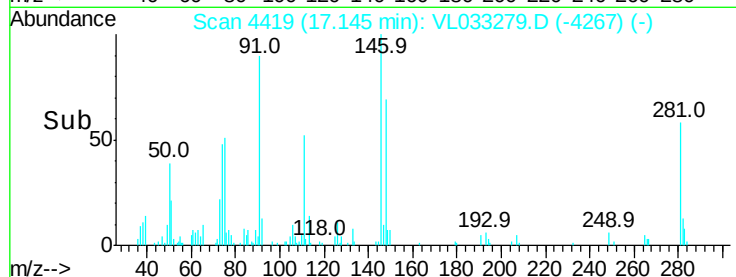
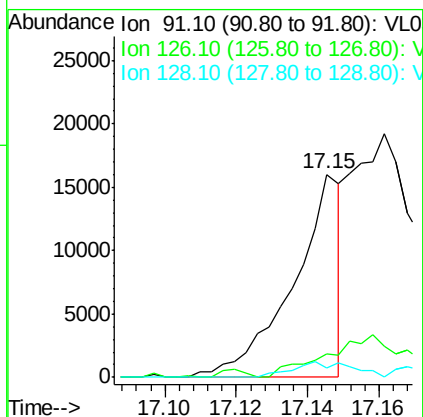
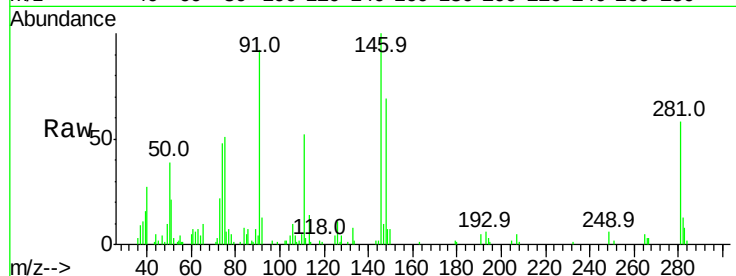
Tgt Ion: 91 Resp: 14878

Ion Ratio Lower Upper

91 100

126 0.0 13.0 19.6#

128 12.6 4.3 6.5#



#67

sec-Butylbenzene

Concen: 0.502 ppbv

RT: 17.45 min Scan# 4515

Delta R.T. -0.01 min

Lab File: VL033279.D

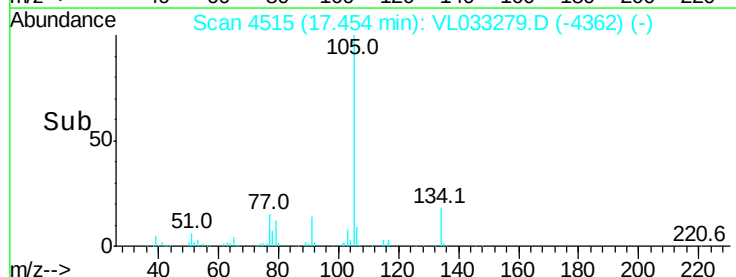
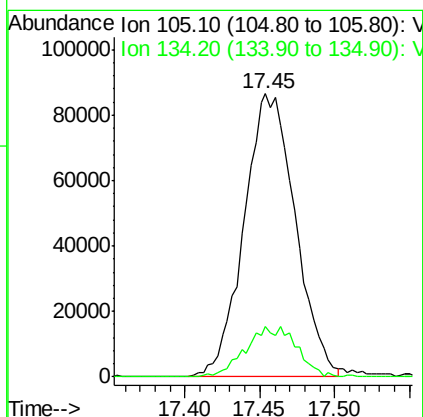
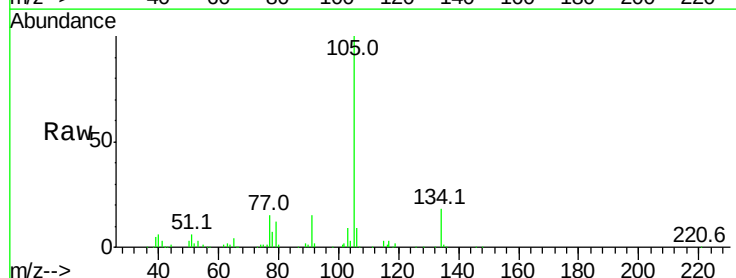
Acq: 12 Mar 2019 9:04

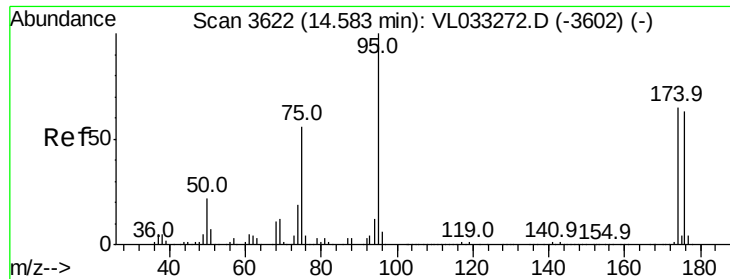
Tgt Ion: 105 Resp: 204762

Ion Ratio Lower Upper

105 100

134 17.9 14.2 21.2

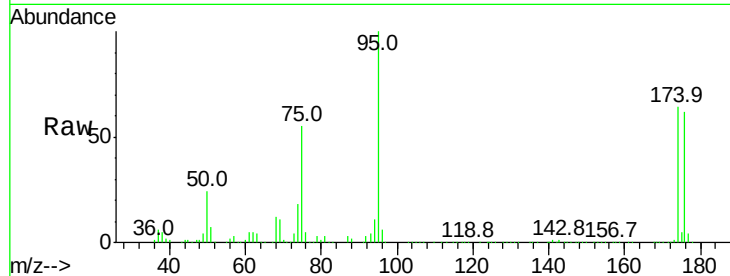




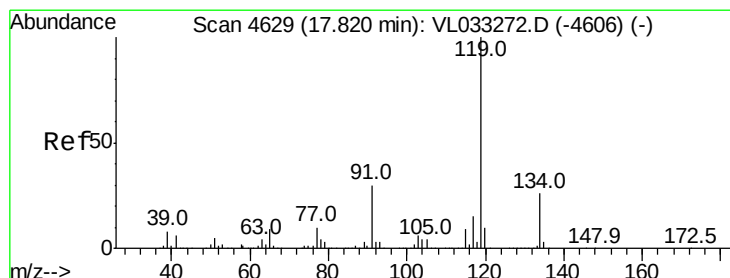
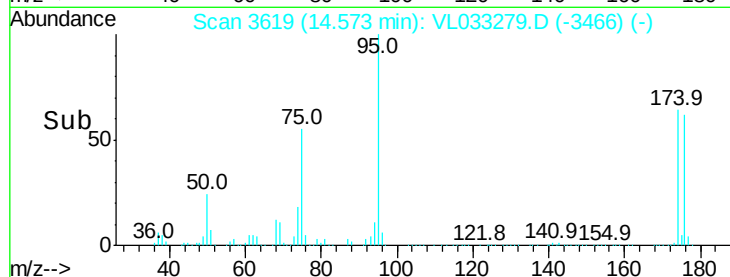
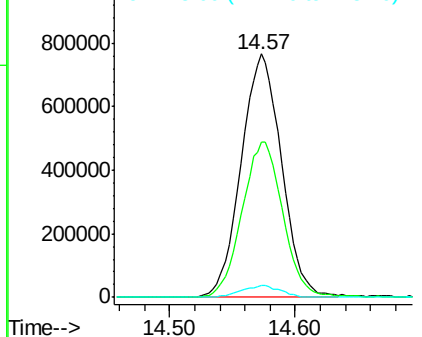
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.995 ppbv
 RT: 14.57 min Scan# 3619
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 95 Resp: 1714709
 Ion Ratio Lower Upper
 95 100
 174 64.9 51.7 77.5
 175 4.8 3.7 5.5

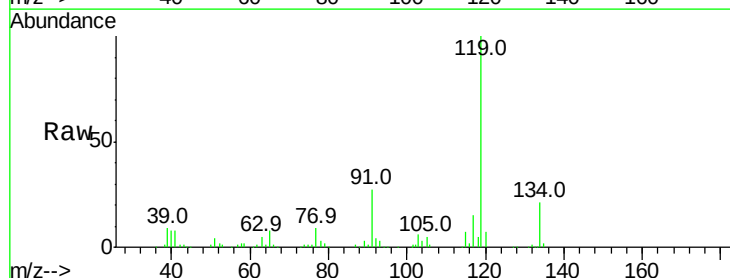


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

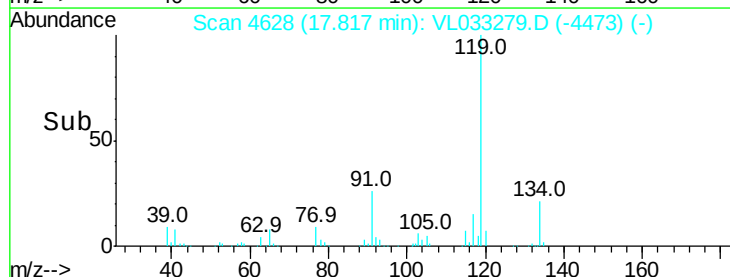
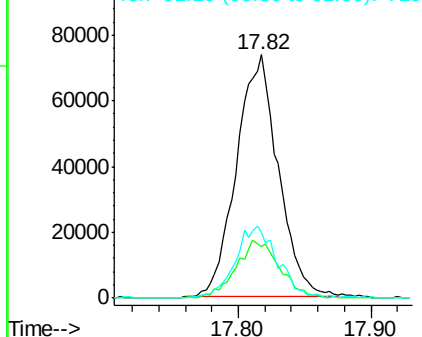


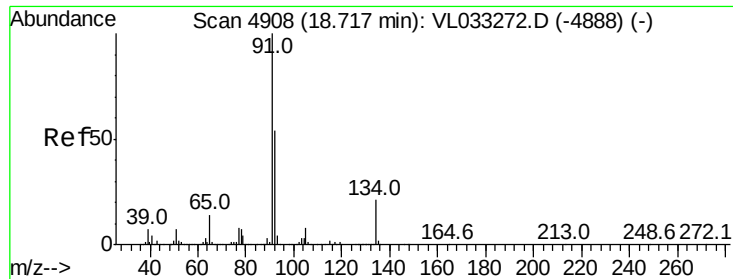
#69
 p-Isopropyltoluene
 Concen: 0.492 ppbv
 RT: 17.82 min Scan# 4628
 Delta R.T. -0.00 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion: 119 Resp: 161166
 Ion Ratio Lower Upper
 119 100
 134 24.9 19.7 29.5
 91 30.0 23.5 35.3



Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): VL0





#70

n-Butylbenzene

Concen: 0.499 ppbv

RT: 18.71 min Scan# 4907

Delta R.T. -0.00 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

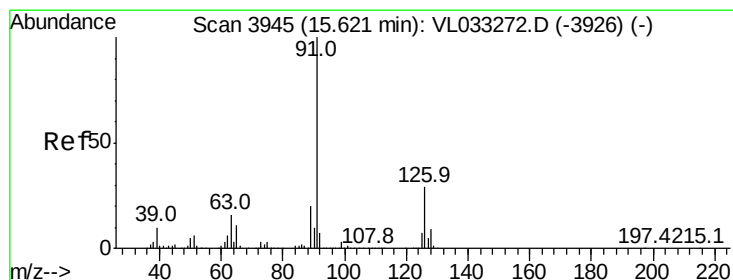
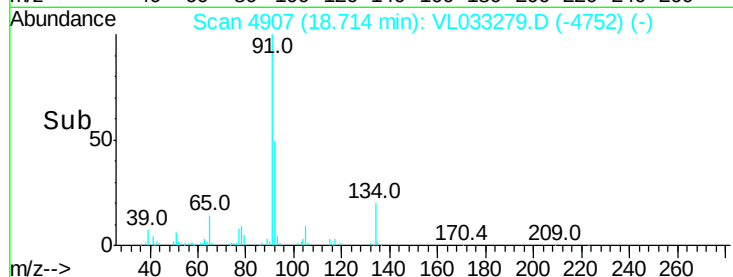
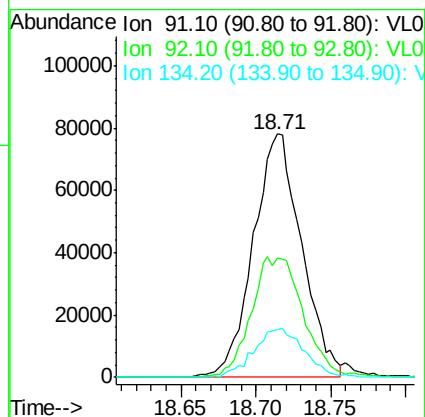
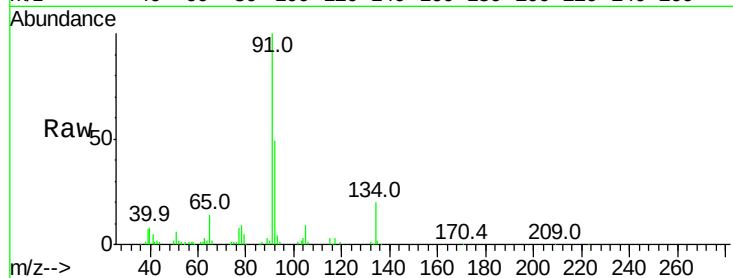
Tgt Ion: 91 Resp: 175408

Ion Ratio Lower Upper

91 100

92 53.7 42.4 63.6

134 20.9 17.1 25.7



#71

2-Chlorotoluene

Concen: 0.527 ppbv

RT: 15.61 min Scan# 3942

Delta R.T. -0.01 min

Lab File: VL033279.D

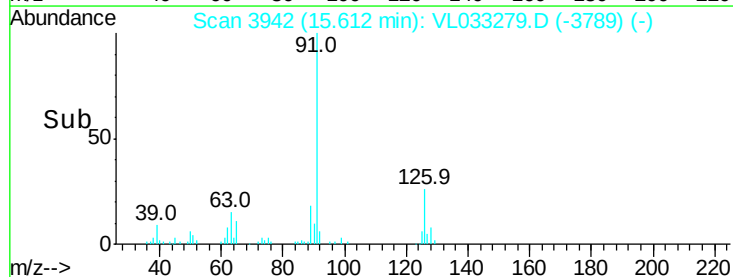
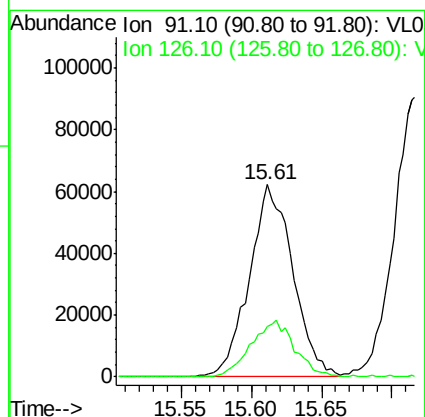
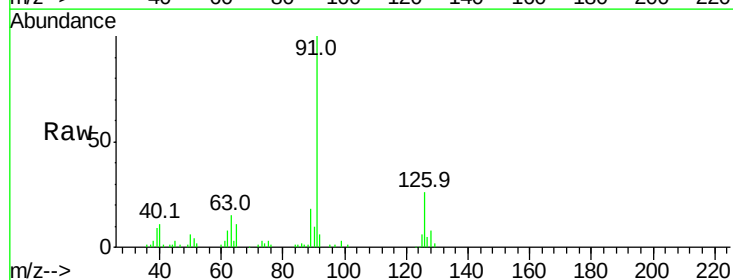
Acq: 12 Mar 2019 9:04

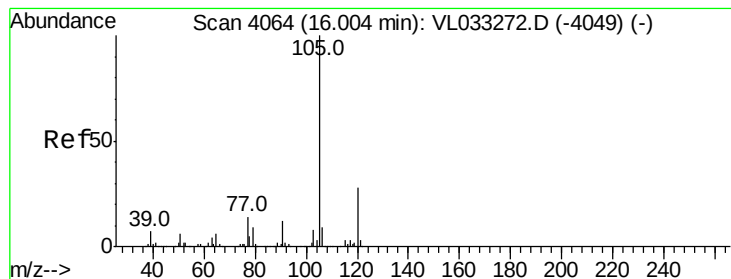
Tgt Ion: 91 Resp: 134250

Ion Ratio Lower Upper

91 100

126 29.5 11.7 46.7





#72

4-Ethyltoluene

Concen: 0.484 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 127312

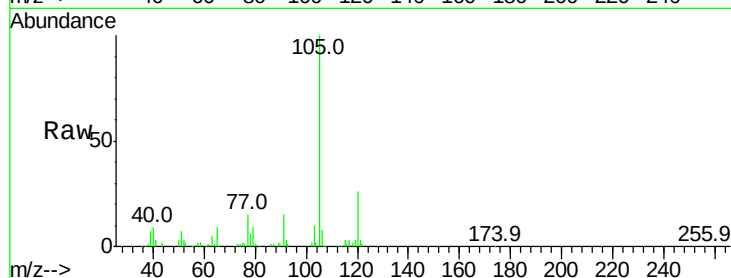
Ion Ratio Lower Upper

105 100

120 29.0 22.9 34.3

91 13.4 10.2 15.2

77 15.9 11.2 16.8

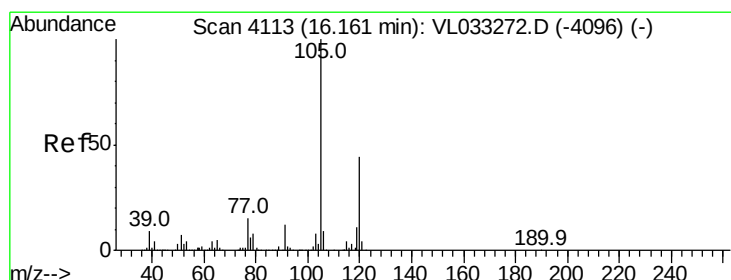
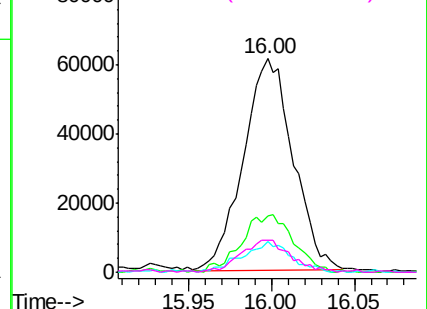
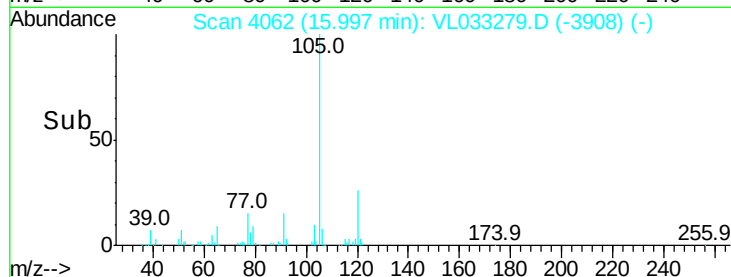


Abundance Ion 105.10 (104.80 to 105.80): V

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



#73

1,3,5-Trimethylbenzene

Concen: 0.508 ppbv

RT: 16.15 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL033279.D

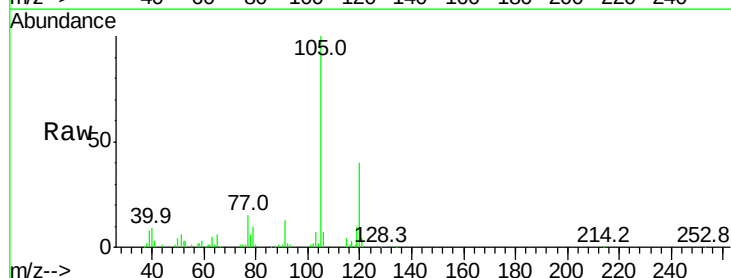
Acq: 12 Mar 2019 9:04

Tgt Ion:105 Resp: 125118

Ion Ratio Lower Upper

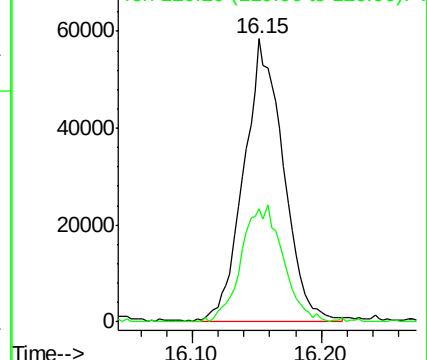
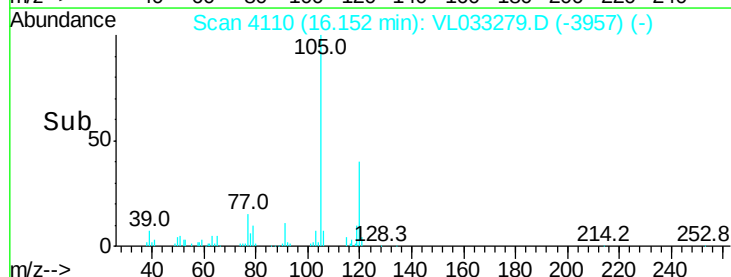
105 100

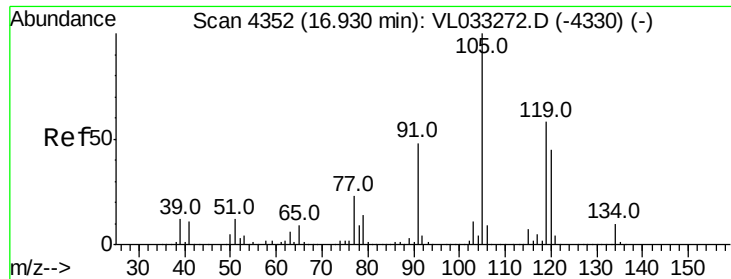
120 40.0 35.1 52.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

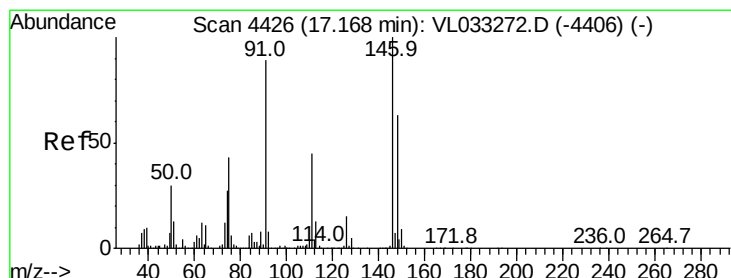
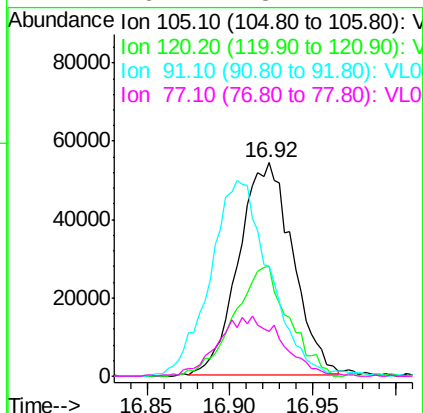
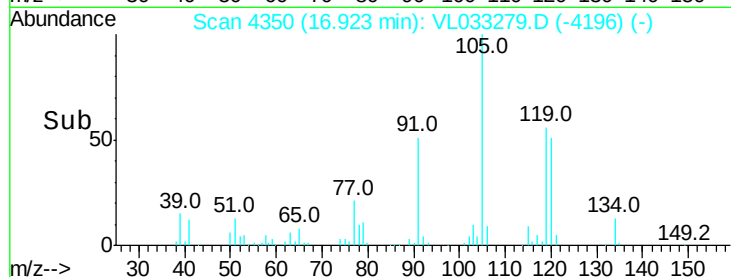
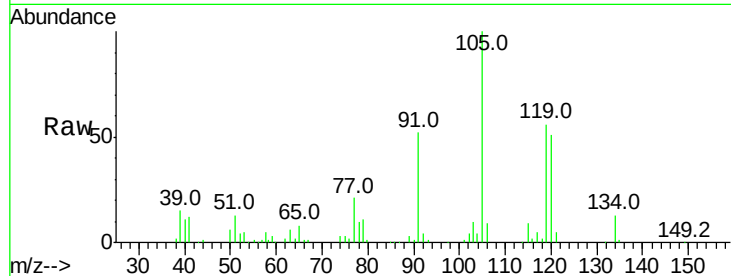




#74
 1,2,4-Trimethylbenzene
 Concen: 0.482 ppbv
 RT: 16.92 min Scan# 4350
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

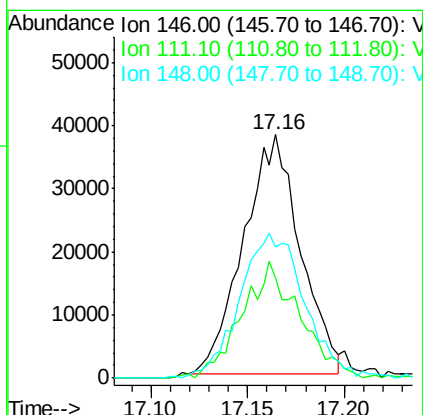
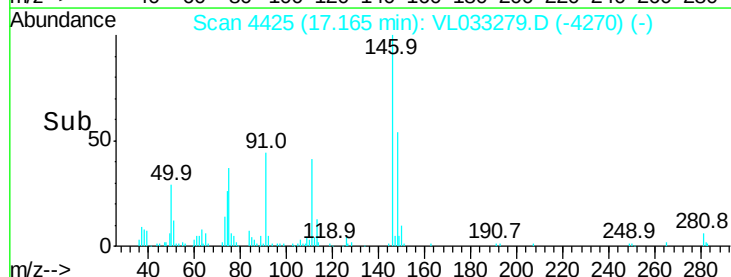
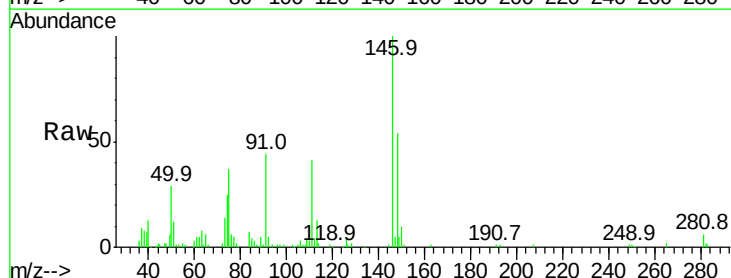
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

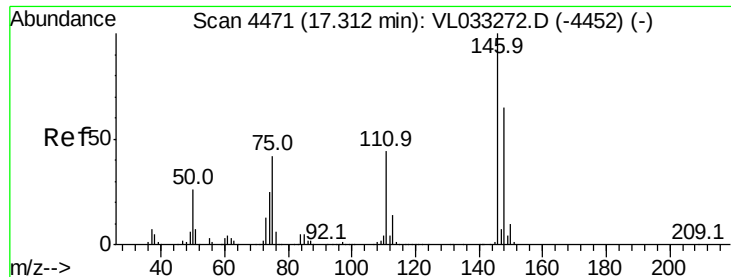
Tgt Ion:	105	Resp:	122695
Ion	Ratio	Lower	Upper
105	100		
120	51.6	36.1	54.1
91	49.3	38.6	58.0
77	20.2	18.2	27.4



#75
 1,3-Dichlorobenzene
 Concen: 0.512 ppbv
 RT: 17.16 min Scan# 4425
 Delta R.T. -0.00 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion:	146	Resp:	77774
Ion	Ratio	Lower	Upper
146	100		
111	50.2	22.8	68.4
148	69.3	31.8	95.3

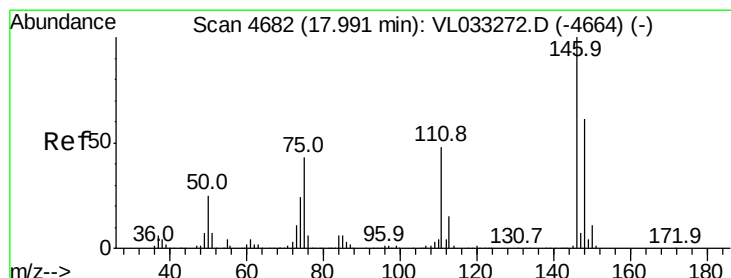
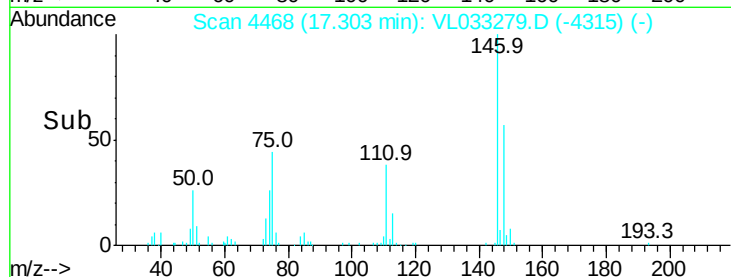
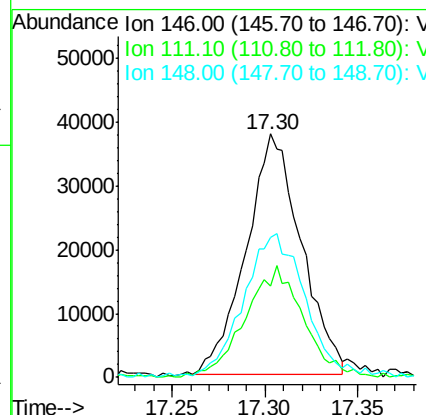
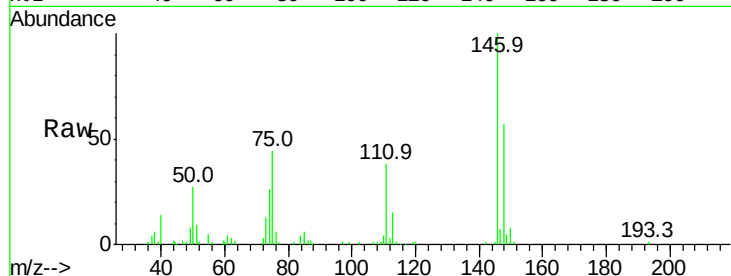




#76
 1,4-Dichlorobenzene
 Concen: 0.526 ppbv
 RT: 17.30 min Scan# 4468
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

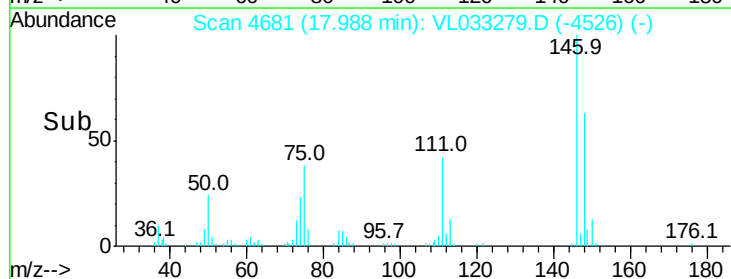
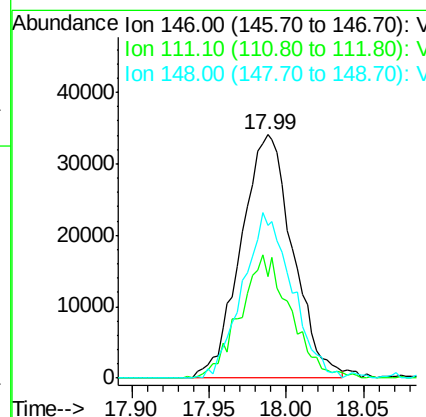
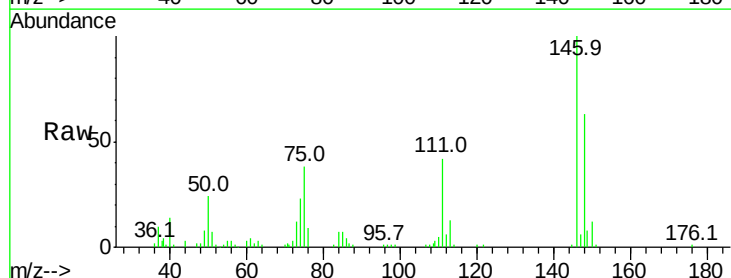
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

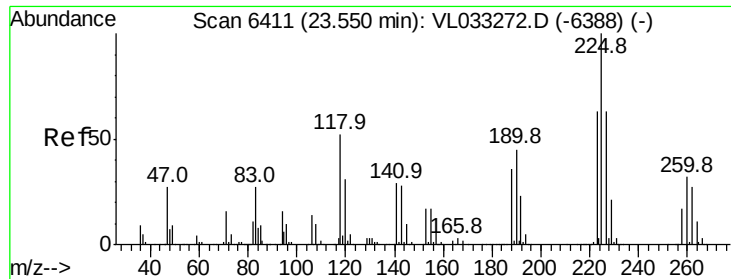
Tgt Ion:146 Resp: 78285
 Ion Ratio Lower Upper
 146 100
 111 48.9 22.1 66.1
 148 68.0 31.8 95.3



#77
 1,2-Dichlorobenzene
 Concen: 0.534 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. -0.00 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion:146 Resp: 79617
 Ion Ratio Lower Upper
 146 100
 111 49.0 23.5 70.5
 148 65.2 31.7 95.1

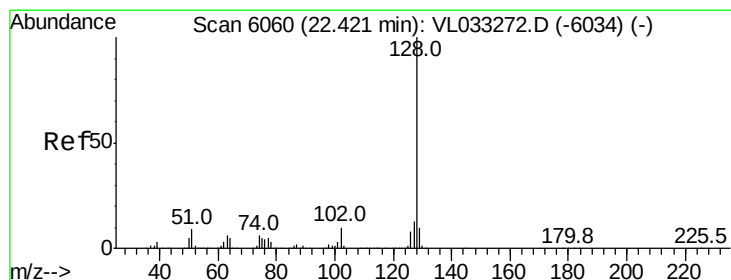
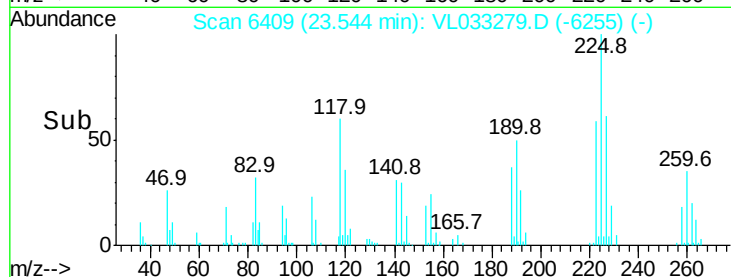
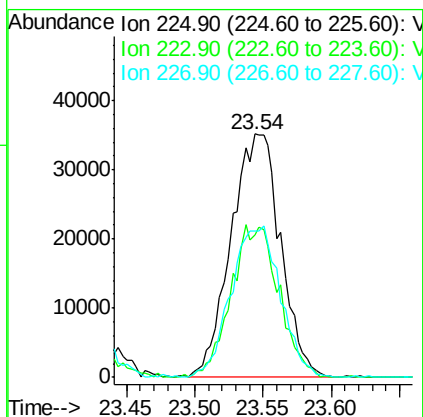
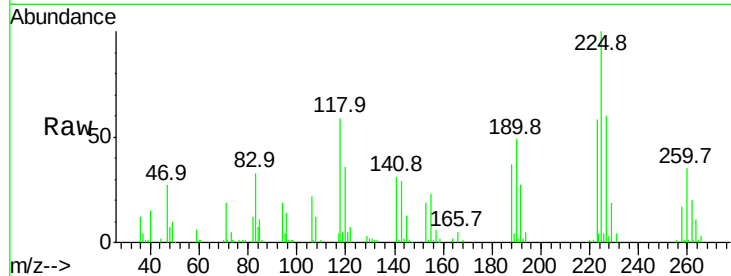




#78
 Hexachloro-1,3-Butadiene
 Concen: 0.772 ppbv
 RT: 23.54 min Scan# 6409
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

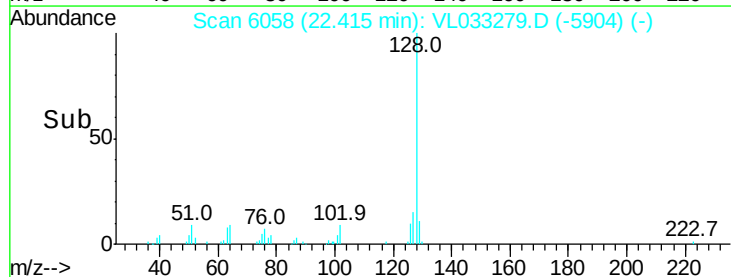
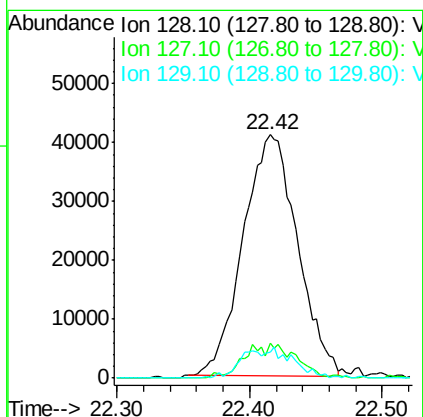
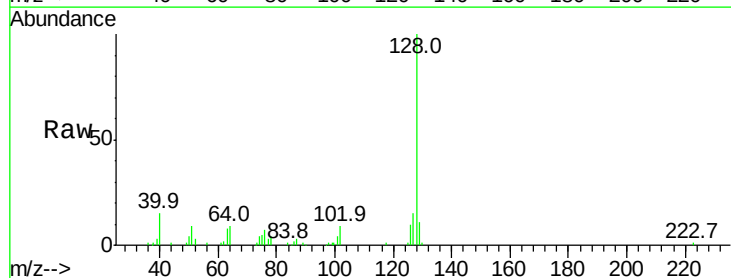
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

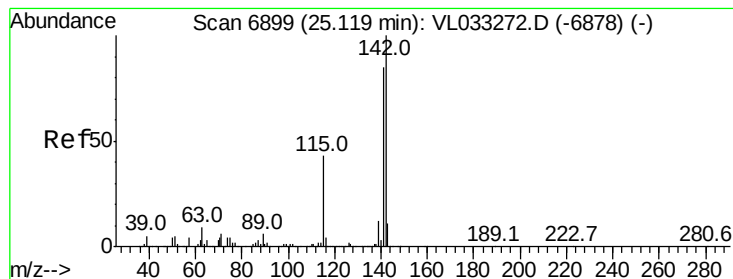
Tgt Ion: 225 Resp: 88984
 Ion Ratio Lower Upper
 225 100
 223 60.0 50.3 75.5
 227 62.2 51.1 76.7



#79
 Naphthalene
 Concen: 0.449 ppbv
 RT: 22.42 min Scan# 6058
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion: 128 Resp: 116511
 Ion Ratio Lower Upper
 128 100
 127 13.7 10.5 15.7
 129 12.4 8.4 12.6





#80

Naphthalene, 2-methyl-

Concen: 0.644 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. -0.00 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

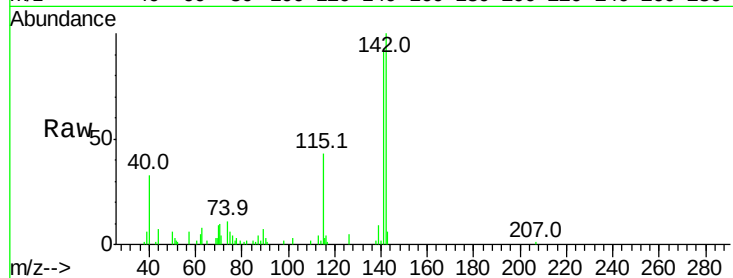
Tgt Ion:142 Resp: 38872

Ion Ratio Lower Upper

142 100

141 96.0 68.0 102.0

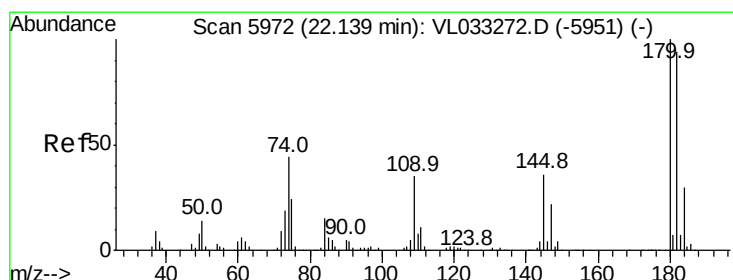
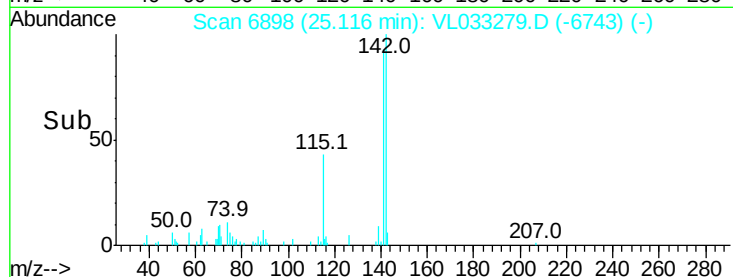
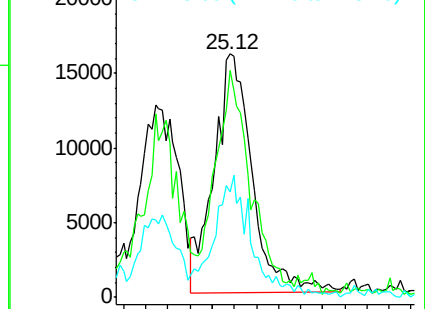
115 50.4 33.8 50.6



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: 0.513 ppbv

RT: 22.14 min Scan# 5971

Delta R.T. -0.00 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

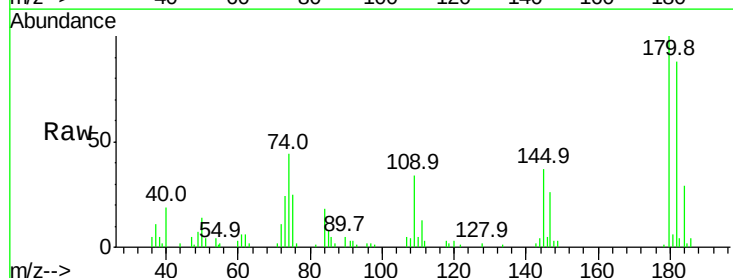
Tgt Ion:180 Resp: 70722

Ion Ratio Lower Upper

180 100

182 97.5 76.6 114.8

184 31.1 24.2 36.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

