

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV110624\
 Data File : VV037941.D
 Acq On : 06 Nov 2024 20:23
 Operator : SY/MD
 Sample : P4729-02
 Misc : 25mL/MSVOA_V/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 06 22:49:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110624WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Nov 06 22:44:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	5.532	114	272518	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.780	117	291378	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.181	152	147683	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.275	65	99495	4.770	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.400%
7) Chloroethane-d5	1.529	69	77392	4.552	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.000%
11) 1,1-Dichloroethene-d2	2.053	65	42274	4.670	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	93.400%
20) 2-Butanone-d5	3.802	46	208601	53.656	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.320%
24) Chloroform-d	4.243	84	193102	5.079	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.600%
26) 1,2-Dichloroethane-d4	4.940	65	88556	5.211	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.200%
32) Benzene-d6	4.953	84	356451	4.743	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.800%
36) 1,2-Dichloropropane-d6	5.985	67	112129	5.110	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.200%
41) Toluene-d8	7.239	98	302481	4.479	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.600%
43) trans-1,3-Dichloroprop...	7.558	79	34926	4.116	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.400%
46) 2-Hexanone-d5	8.024	63	175309	53.167	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	106.340%
56) 1,1,2,2-Tetrachloroeth...	10.146	84	94233	5.326	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	106.600%
66) 1,2-Dichlorobenzene-d4	11.554	152	130066	5.340	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.800%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.281	62	11987	0.471	ug/L #	48
8) Chloroethane	1.281	64	5767	0.381	ug/L	97
10) 1,1,2-Trichloro-1,2,2-...	2.066	101	36500	1.802	ug/L	96
12) 1,1-Dichloroethene	2.066	96	204073	10.963	ug/L #	80
15) Methyl Acetate	2.442	43	7394	1.132	ug/L #	81
16) Methylene chloride	2.439	84	1784349	82.110	ug/L	99
17) Methyl tert-butyl Ether	2.699	73	4495	0.108	ug/L #	87
18) trans-1,2-Dichloroethene	2.703	96	4805	0.239	ug/L	87
19) 1,1-Dichloroethane	3.108	63	63627	1.742	ug/L	95
22) cis-1,2-Dichloroethene	3.805	96	638136	30.120	ug/L	99
25) Chloroform	4.268	83	199810	5.207	ug/L	97
29) 1,1,1-Trichloroethane	4.506	97	24389	0.700	ug/L	96
31) Carbon tetrachloride	4.728	117	55774	1.825	ug/L	98
35) Methylcyclohexane	5.985	83	27531	0.833	ug/L #	19
37) 1,2-Dichloropropane	5.985	63	10978	0.549	ug/L #	86
38) Bromodichloromethane	6.442	83	3813	0.144	ug/L #	91
42) Toluene	7.320	91	54561	0.644	ug/L	94
45) 1,1,2-Trichloroethane	7.780	97	4293	0.283	ug/L	94
47) Tetrachloroethene	7.895	164	559058	32.438	ug/L	99

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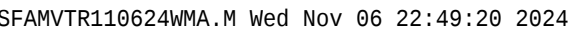
Instrument :
MSVOA_V
ClientSampleId :

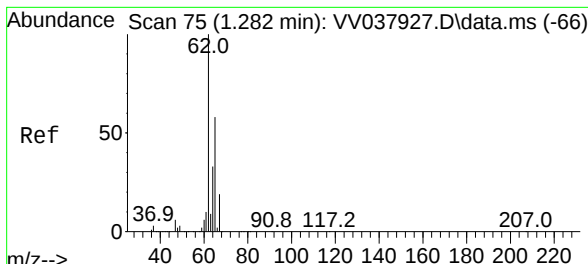
Quant Time: Nov 06 22:49:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110624WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Nov 06 22:44:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	7.895	129	524914	30.314	ug/L #	12
52) Ethylbenzene	8.943	91	214291	2.348	ug/L	100
53) m,p-Xylene	9.066	106	365794	10.508	ug/L	95
54) o-Xylene	9.474	106	162983	4.920	ug/L	100
60) Isopropylbenzene	10.384	105	49645	0.577	ug/L	94
61) 1,2,3-Trichloropropane	10.352	75	5450	0.472	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.474	105	26501	0.392	ug/L	95
63) 1,2,4-Trimethylbenzene	10.847	105	85170	1.276	ug/L	98
67) 1,2-Dichlorobenzene	11.577	146	27003	0.670	ug/L	96

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

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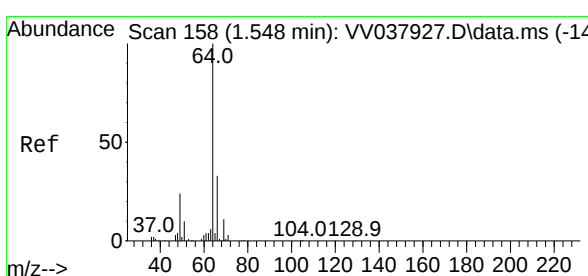
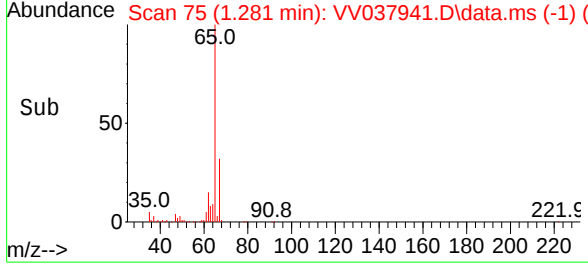
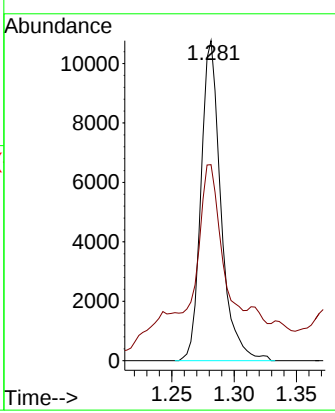
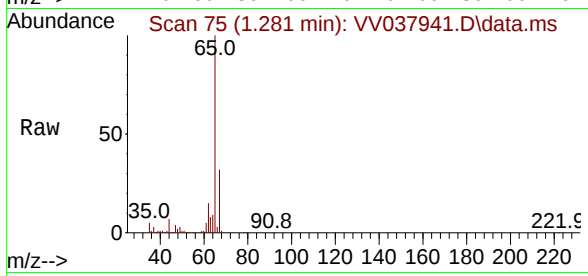




#5
 Vinyl chloride
 Concen: 0.471 ug/L
 RT: 1.281 min Scan# 75
 Delta R.T. -0.000 min
 Lab File: VV037941.D
 Acq: 06 Nov 2024 20:23

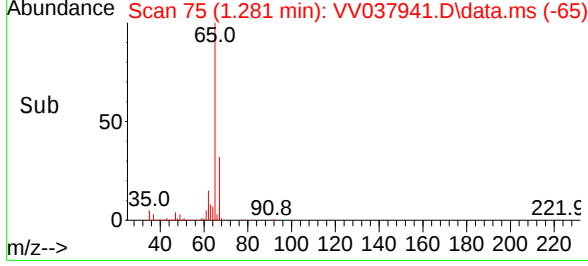
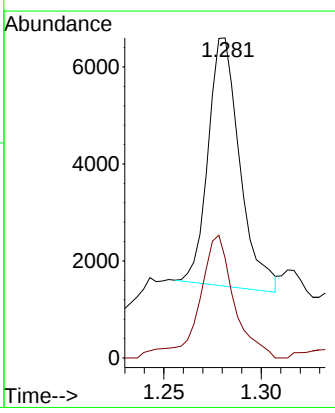
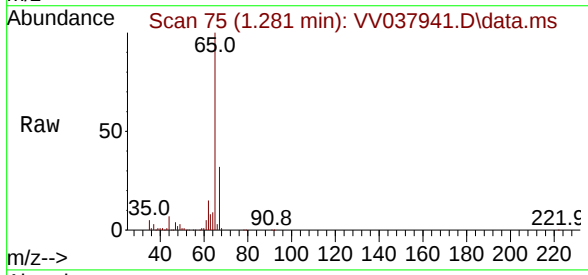
Instrument :
 MSVOA_V
 ClientSampleId :

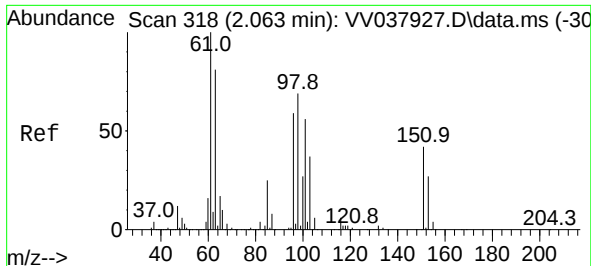
Tgt Ion: 62 Resp: 11987
 Ion Ratio Lower Upper
 62 100
 64 61.3 22.4 41.6#



#8
 Chloroethane
 Concen: 0.381 ug/L
 RT: 1.281 min Scan# 75
 Delta R.T. -0.267 min
 Lab File: VV037941.D
 Acq: 06 Nov 2024 20:23

Tgt Ion: 64 Resp: 5767
 Ion Ratio Lower Upper
 64 100
 66 31.2 23.0 42.8

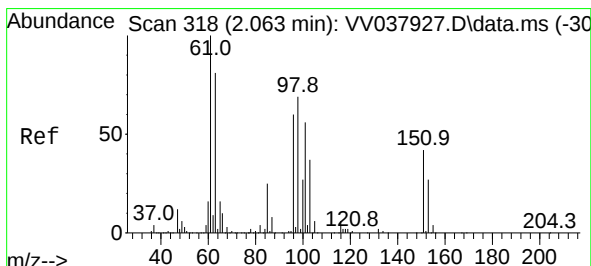
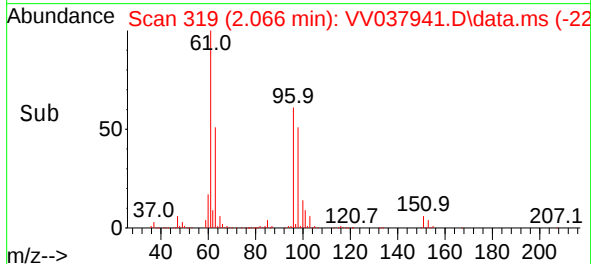
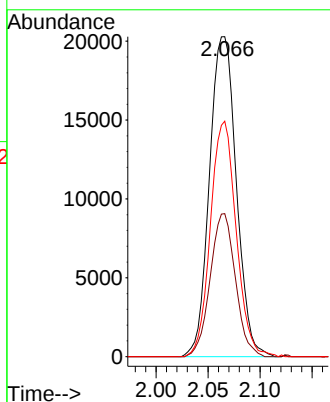
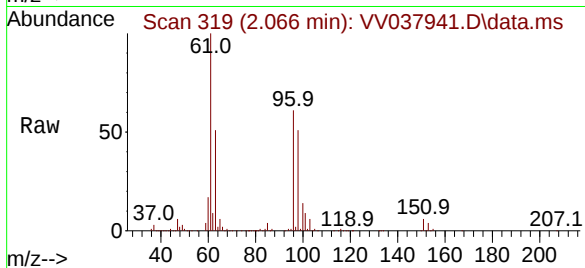




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 1.802 ug/L
 RT: 2.066 min Scan# 319
 Delta R.T. 0.003 min
 Lab File: VV037941.D
 Acq: 06 Nov 2024 20:23

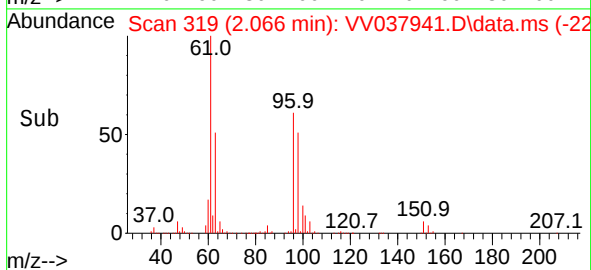
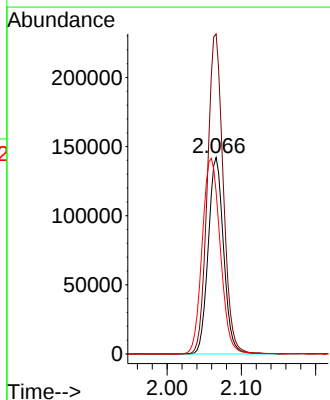
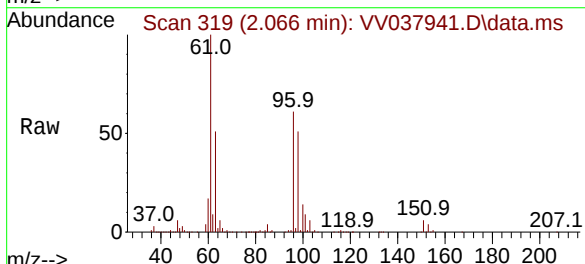
Instrument :
 MSVOA_V
 ClientSampleId :

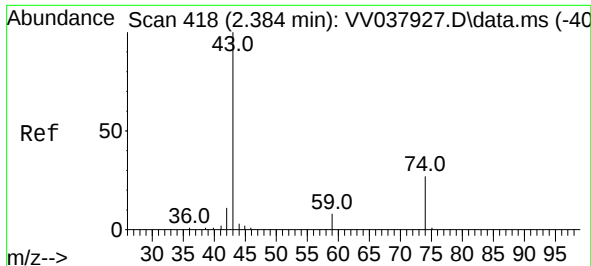
Tgt Ion:101 Resp: 36500
 Ion Ratio Lower Upper
 101 100
 85 41.9 35.0 52.6
 151 70.6 59.2 88.8



#12
 1,1-Dichloroethene
 Concen: 10.963 ug/L
 RT: 2.066 min Scan# 319
 Delta R.T. 0.003 min
 Lab File: VV037941.D
 Acq: 06 Nov 2024 20:23

Tgt Ion: 96 Resp: 204073
 Ion Ratio Lower Upper
 96 100
 61 162.9 117.4 218.0
 63 82.5 91.7 170.3#





#15

Methyl Acetate

Concen: 1.132 ug/L

RT: 2.442 min Scan# 41

Delta R.T. 0.058 min

Lab File: VV037941.D

Acq: 06 Nov 2024 20:23

Instrument :

MSVOA_V

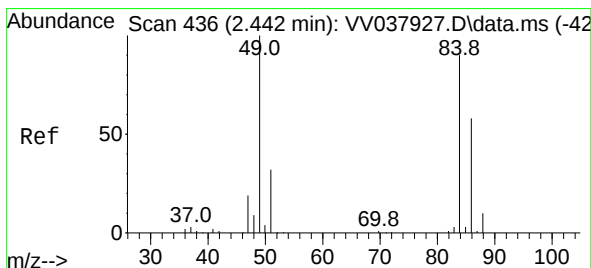
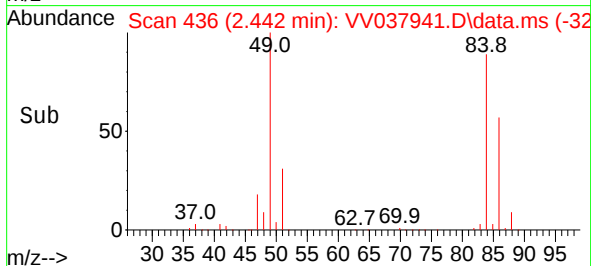
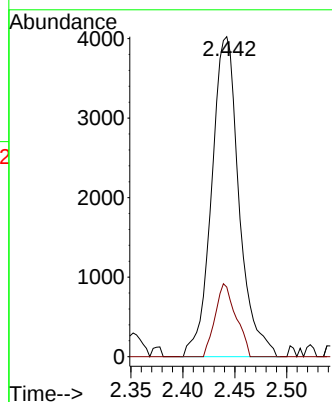
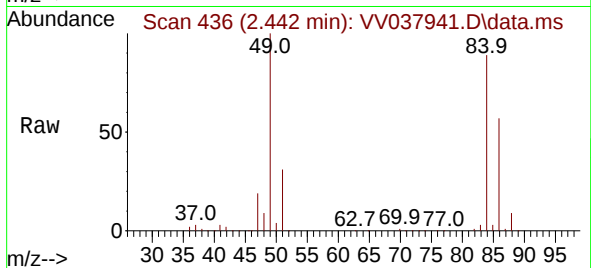
ClientSampleId :

Tgt Ion: 43 Resp: 7394

Ion Ratio Lower Upper

43 100

74 17.3 21.8 32.8#



#16

Methylene chloride

Concen: 82.110 ug/L

RT: 2.439 min Scan# 435

Delta R.T. -0.003 min

Lab File: VV037941.D

Acq: 06 Nov 2024 20:23

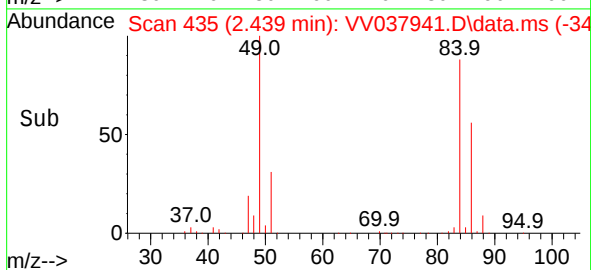
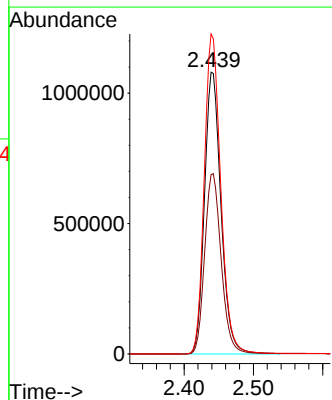
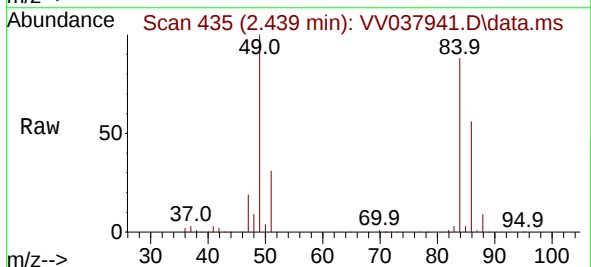
Tgt Ion: 84 Resp: 1784349

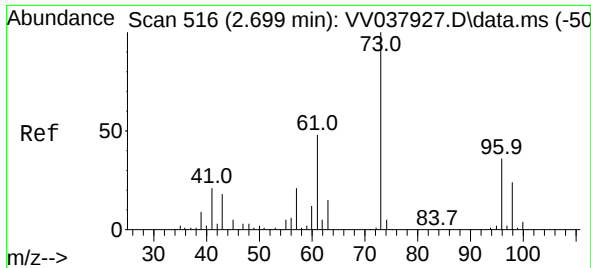
Ion Ratio Lower Upper

84 100

86 63.6 45.0 83.6

49 113.6 79.2 147.2

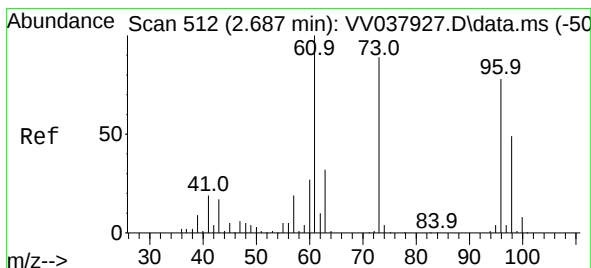
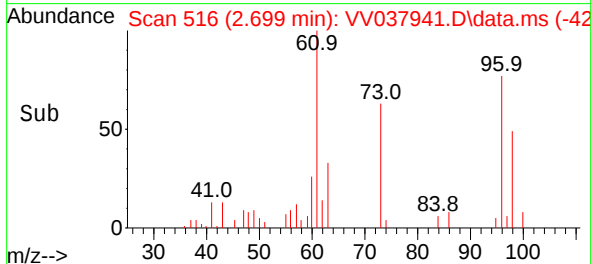
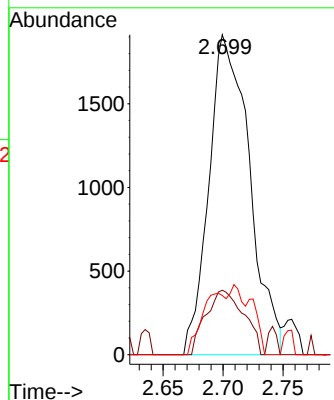
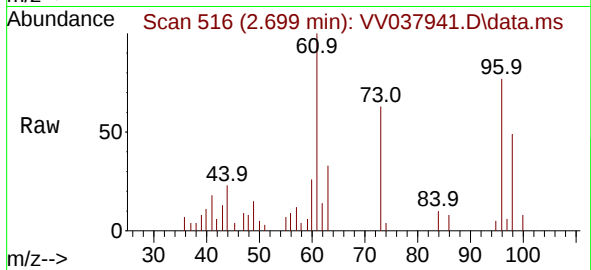




#17
Methyl tert-butyl Ether
Concen: 0.108 ug/L
RT: 2.699 min Scan# 516
Delta R.T. -0.000 min
Lab File: VV037941.D
Acq: 06 Nov 2024 20:23

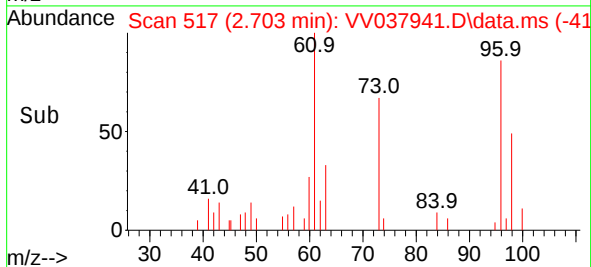
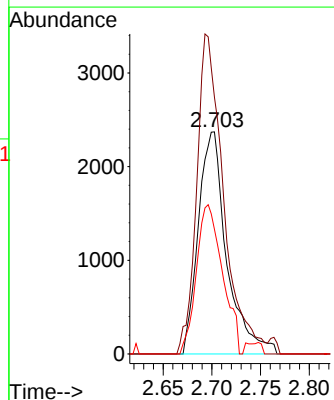
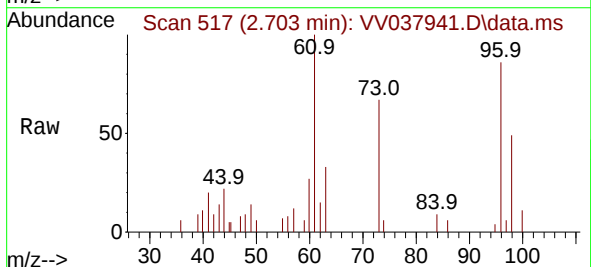
Instrument :
MSVOA_V
ClientSampleId :

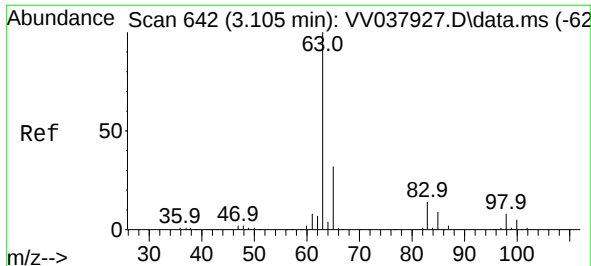
Tgt Ion: 73 Resp: 4495
Ion Ratio Lower Upper
73 100
43 19.0 14.4 21.6
57 11.7 17.8 26.6#



#18
trans-1,2-Dichloroethene
Concen: 0.239 ug/L
RT: 2.703 min Scan# 517
Delta R.T. 0.016 min
Lab File: VV037941.D
Acq: 06 Nov 2024 20:23

Tgt Ion: 96 Resp: 4805
Ion Ratio Lower Upper
96 100
61 115.6 93.2 173.0
98 56.1 44.4 82.4

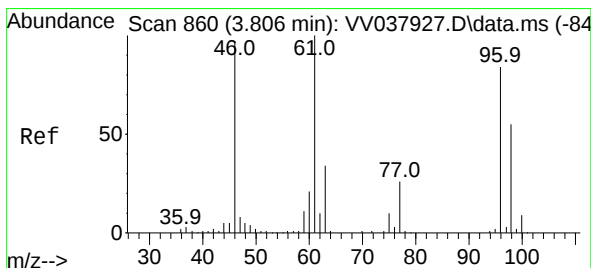
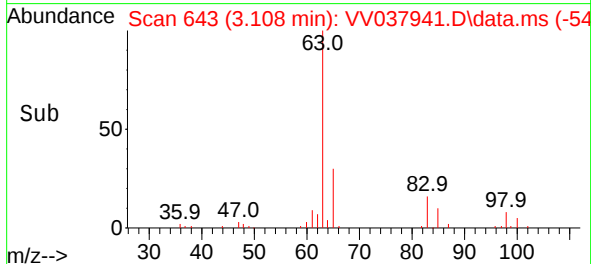
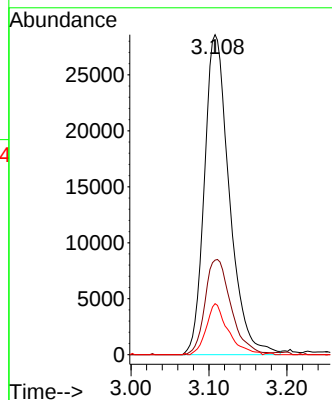
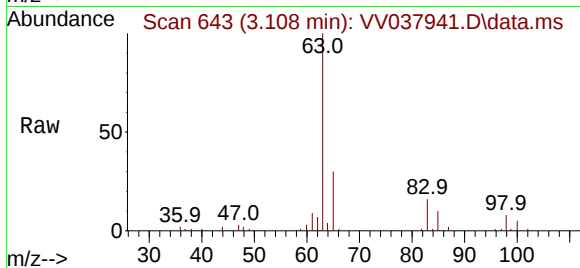




#19
1,1-Dichloroethane
Concen: 1.742 ug/L
RT: 3.108 min Scan# 642
Delta R.T. 0.003 min
Lab File: VV037941.D
Acq: 06 Nov 2024 20:23

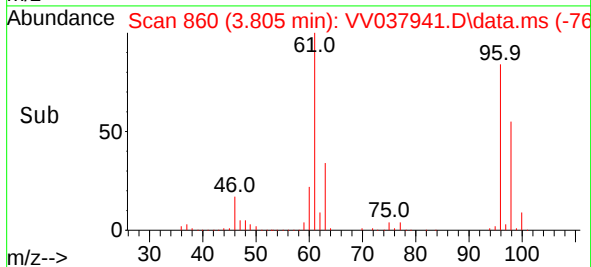
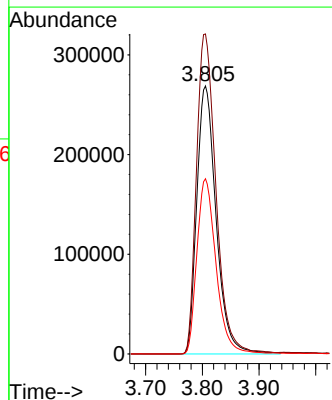
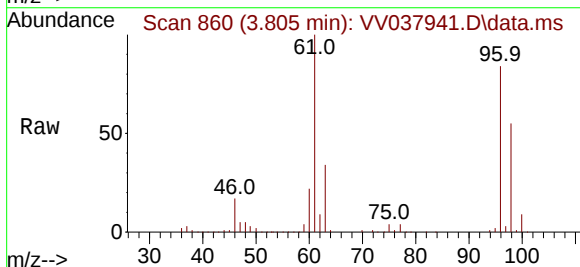
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ClientSampleId :

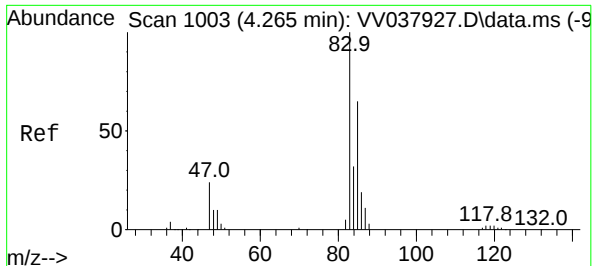
Tgt Ion: 63 Resp: 63627
Ion Ratio Lower Upper
63 100
65 29.5 22.3 41.3
83 16.0 9.5 17.7



#22
cis-1,2-Dichloroethene
Concen: 30.120 ug/L
RT: 3.805 min Scan# 860
Delta R.T. -0.000 min
Lab File: VV037941.D
Acq: 06 Nov 2024 20:23

Tgt Ion: 96 Resp: 638136
Ion Ratio Lower Upper
96 100
61 119.4 83.4 154.8
98 65.4 44.6 82.8





#25

Chloroform

Concen: 5.207 ug/L

RT: 4.268 min Scan# 1003

Delta R.T. 0.003 min

Lab File: VV037941.D

Acq: 06 Nov 2024 20:23

Instrument :

MSVOA_V

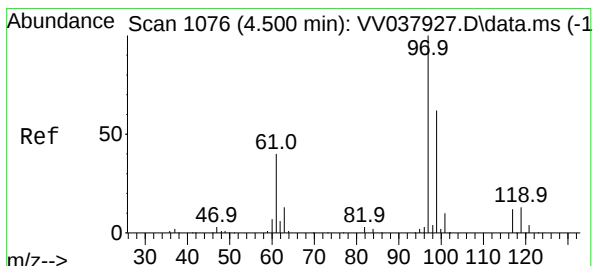
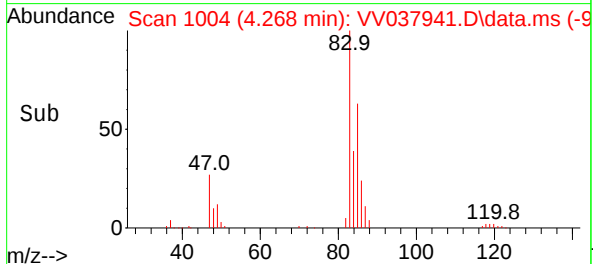
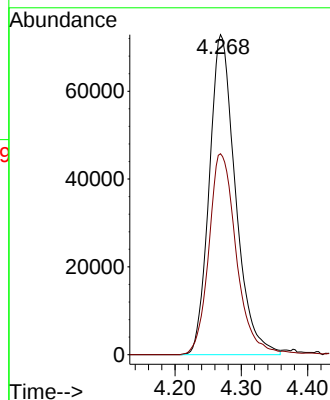
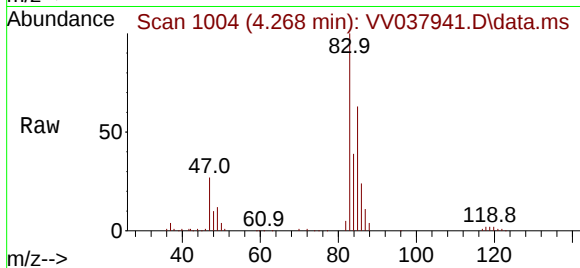
ClientSampleId :

Tgt Ion: 83 Resp: 199810

Ion Ratio Lower Upper

83 100

85 62.8 45.5 84.5



#29

1,1,1-Trichloroethane

Concen: 0.700 ug/L

RT: 4.506 min Scan# 1078

Delta R.T. 0.006 min

Lab File: VV037941.D

Acq: 06 Nov 2024 20:23

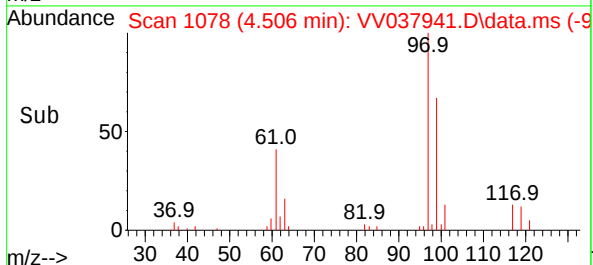
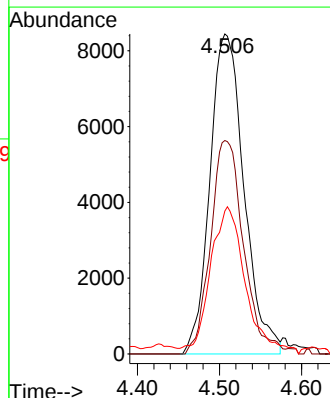
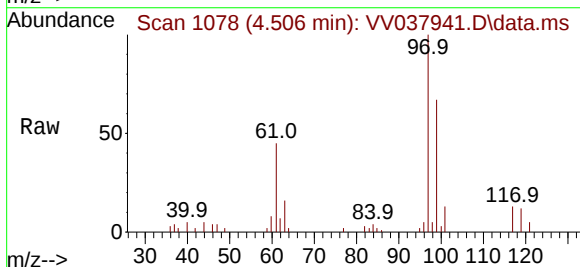
Tgt Ion: 97 Resp: 24389

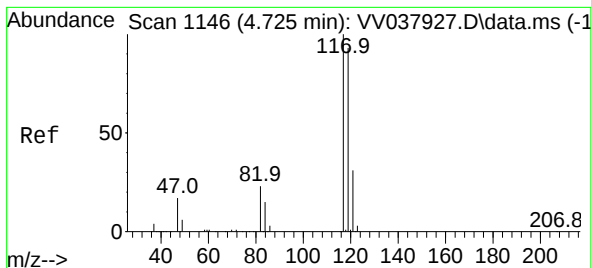
Ion Ratio Lower Upper

97 100

99 64.6 52.1 78.1

61 47.5 33.3 49.9





#31

Carbon tetrachloride

Concen: 1.825 ug/L

RT: 4.728 min Scan# 1146

Delta R.T. 0.003 min

Lab File: VV037941.D

Acq: 06 Nov 2024 20:23

Instrument :

MSVOA_V

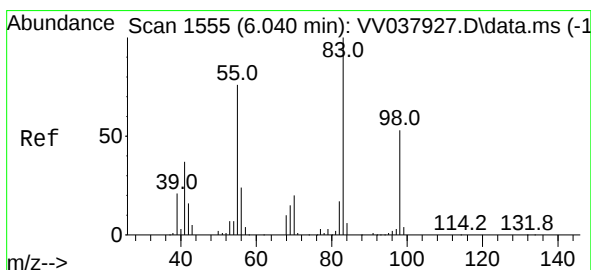
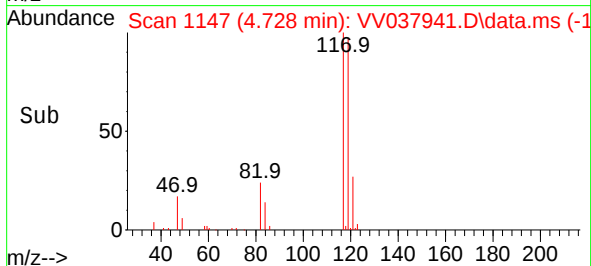
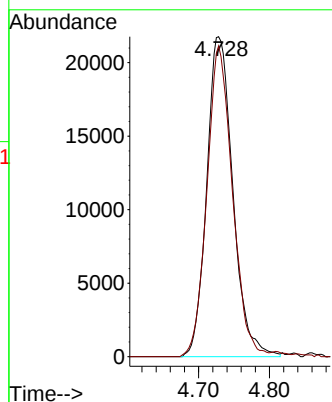
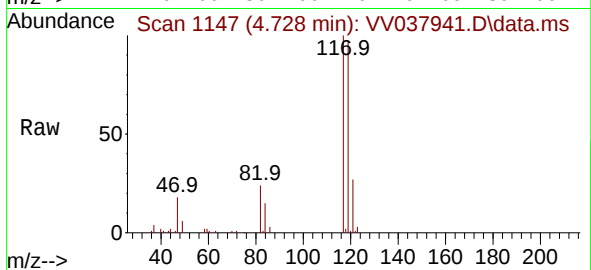
ClientSampleId :

Tgt Ion:117 Resp: 55774

Ion Ratio Lower Upper

117 100

119 94.6 77.2 115.8



#35

Methylcyclohexane

Concen: 0.833 ug/L

RT: 5.985 min Scan# 1538

Delta R.T. -0.055 min

Lab File: VV037941.D

Acq: 06 Nov 2024 20:23

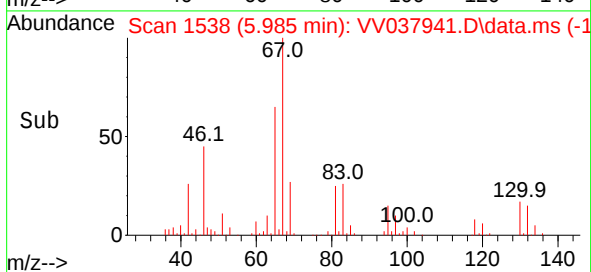
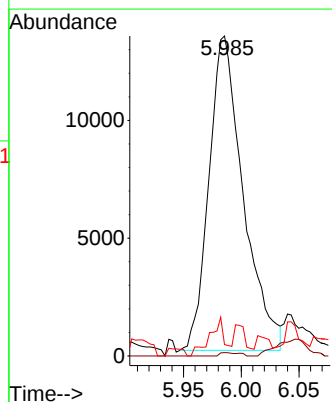
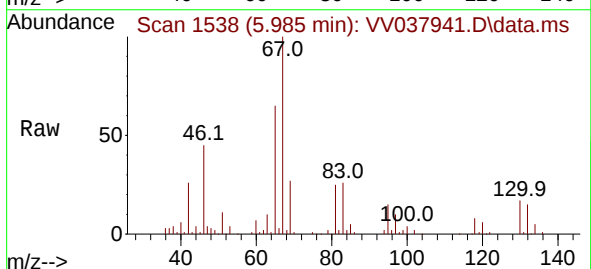
Tgt Ion: 83 Resp: 27531

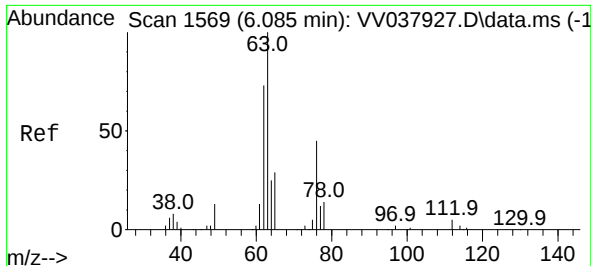
Ion Ratio Lower Upper

83 100

55 0.6 59.3 88.9#

98 0.0 38.3 57.5#





#37

1,2-Dichloropropane

Concen: 0.549 ug/L

RT: 5.985 min Scan# 1

Delta R.T. -0.100 min

Lab File: VV037941.D

Acq: 06 Nov 2024 20:23

Instrument :

MSVOA_V

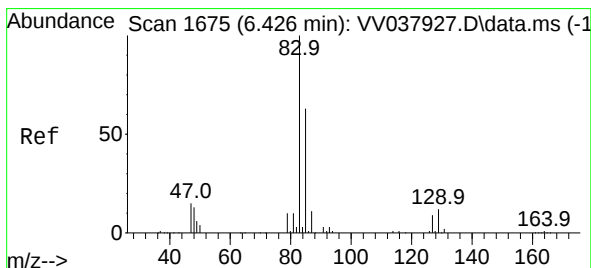
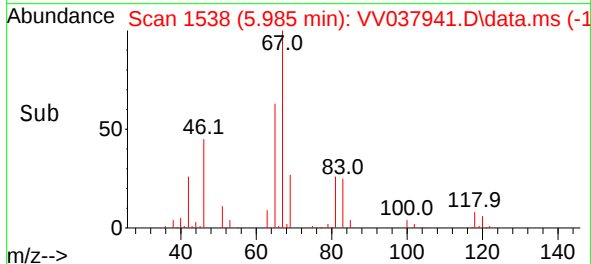
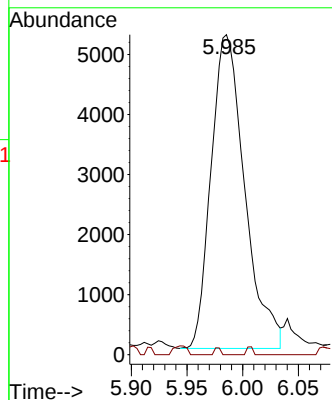
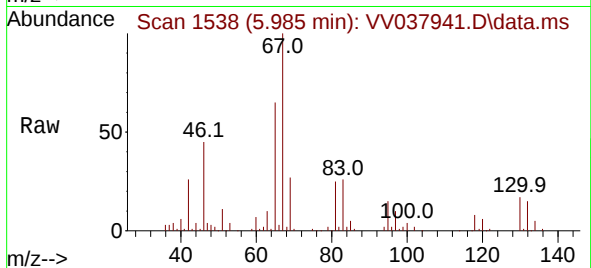
ClientSampleId :

Tgt Ion: 63 Resp: 10978

Ion Ratio Lower Upper

63 100

112 0.4 4.1 6.1#



#38

Bromodichloromethane

Concen: 0.144 ug/L

RT: 6.442 min Scan# 1680

Delta R.T. 0.016 min

Lab File: VV037941.D

Acq: 06 Nov 2024 20:23

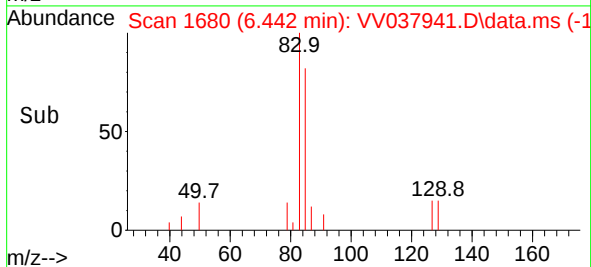
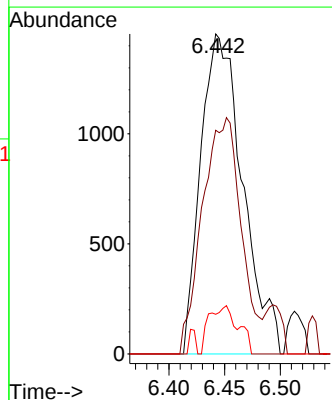
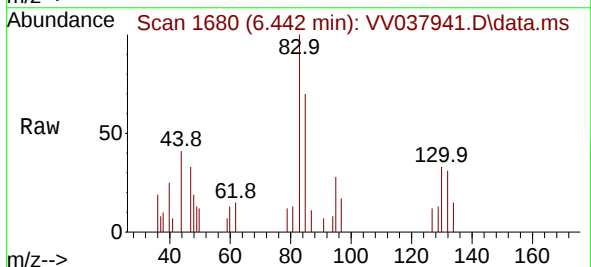
Tgt Ion: 83 Resp: 3813

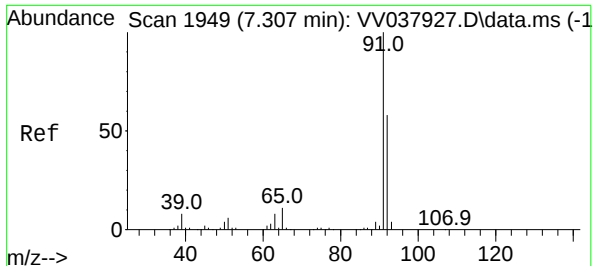
Ion Ratio Lower Upper

83 100

85 69.9 44.2 82.2

127 12.4 6.8 10.2#





#42

Toluene

Concen: 0.644 ug/L

RT: 7.320 min Scan# 1949

Delta R.T. 0.013 min

Lab File: VV037941.D

Acq: 06 Nov 2024 20:23

Instrument :

MSVOA_V

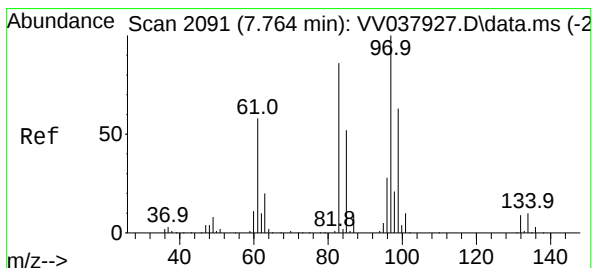
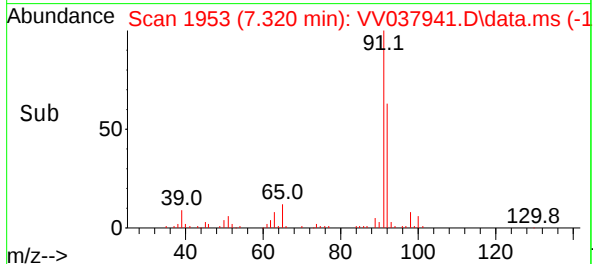
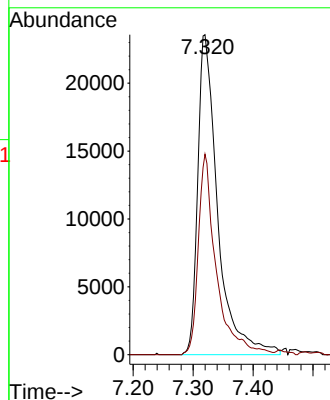
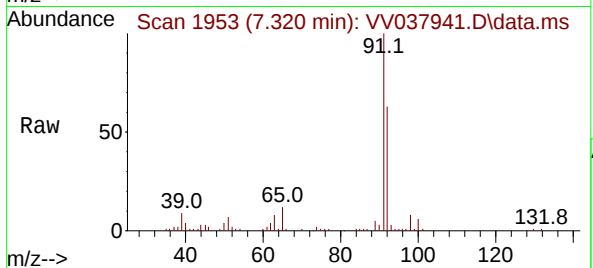
ClientSampleId :

Tgt Ion: 91 Resp: 54561

Ion Ratio Lower Upper

91 100

92 62.6 40.7 75.7



#45

1,1,2-Trichloroethane

Concen: 0.283 ug/L

RT: 7.780 min Scan# 2096

Delta R.T. 0.016 min

Lab File: VV037941.D

Acq: 06 Nov 2024 20:23

Tgt Ion: 97 Resp: 4293

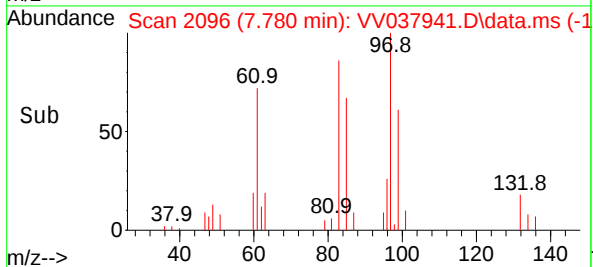
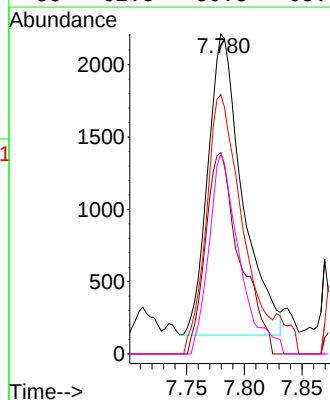
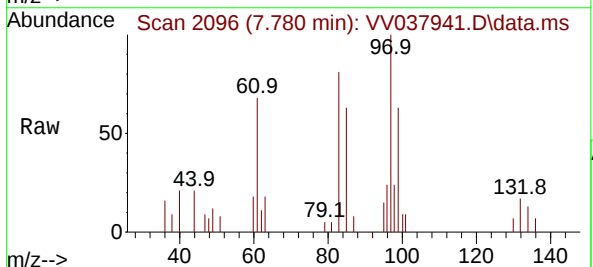
Ion Ratio Lower Upper

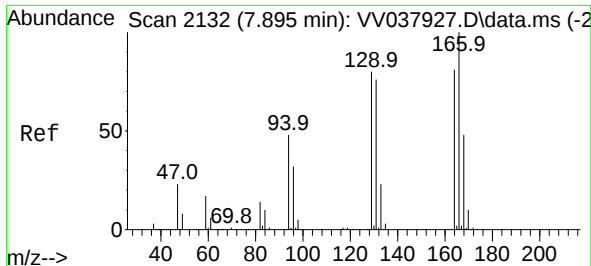
97 100

99 62.9 42.4 78.8

83 81.1 59.3 110.1

85 62.5 36.8 68.4





#47

Tetrachloroethene

Concen: 32.438 ug/L

RT: 7.895 min Scan# 2132

Delta R.T. -0.000 min

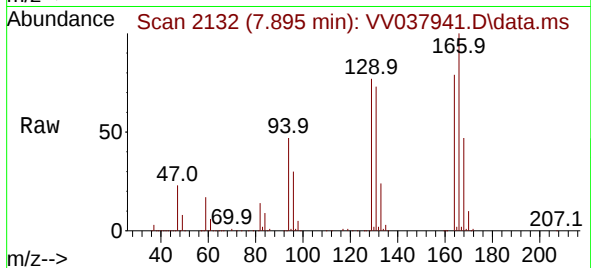
Lab File: VV037941.D

Acq: 06 Nov 2024 20:23

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp: 559058

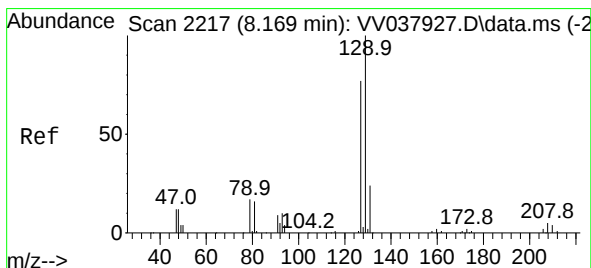
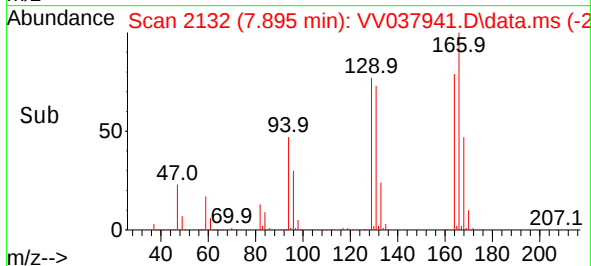
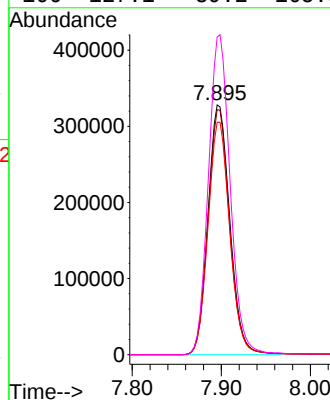
Ion Ratio Lower Upper

164 100

129 98.0 66.8 124.2

131 93.1 65.2 121.2

166 127.1 89.2 165.8



#49

Dibromochloromethane

Concen: 30.314 ug/L

RT: 7.895 min Scan# 2132

Delta R.T. -0.273 min

Lab File: VV037941.D

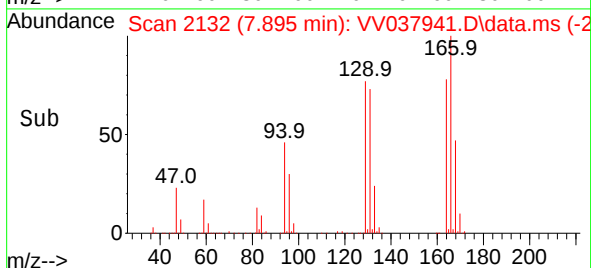
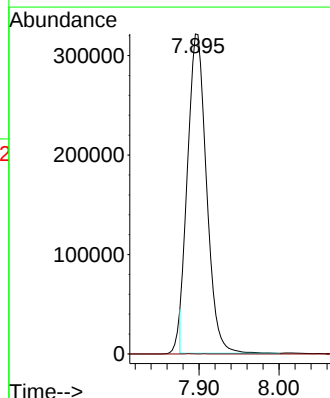
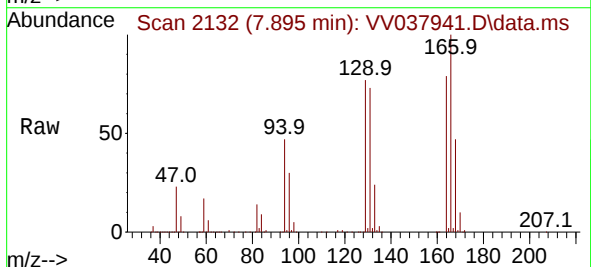
Acq: 06 Nov 2024 20:23

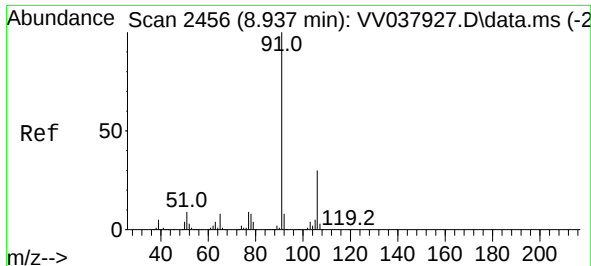
Tgt Ion:129 Resp: 524914

Ion Ratio Lower Upper

129 100

127 0.0 52.2 97.0#





#52

Ethylbenzene

Concen: 2.348 ug/L

RT: 8.943 min Scan# 2456

Delta R.T. 0.006 min

Lab File: VV037941.D

Acq: 06 Nov 2024 20:23

Instrument :

MSVOA_V

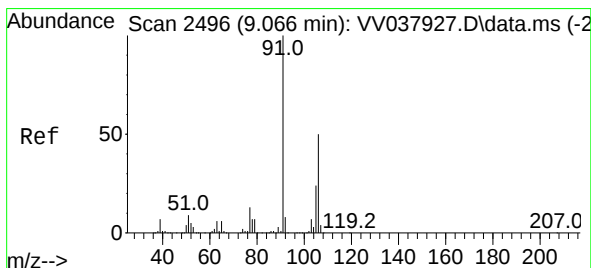
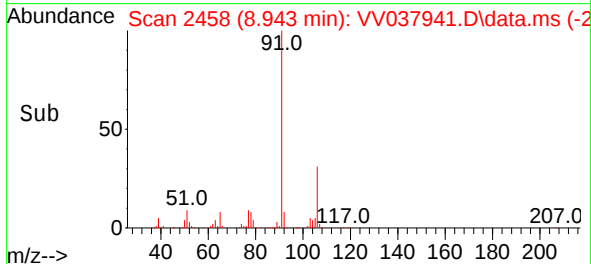
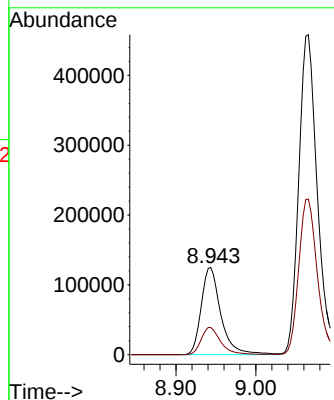
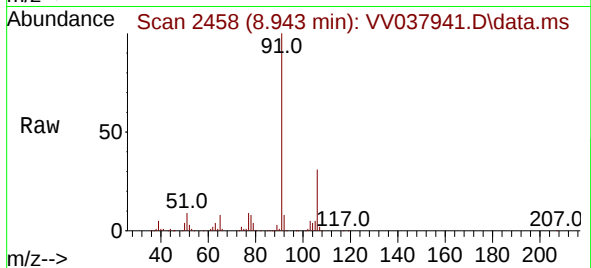
ClientSampleId :

Tgt Ion: 91 Resp: 214291

Ion Ratio Lower Upper

91 100

106 31.3 21.8 40.4



#53

m,p-Xylene

Concen: 10.508 ug/L

RT: 9.066 min Scan# 2496

Delta R.T. -0.000 min

Lab File: VV037941.D

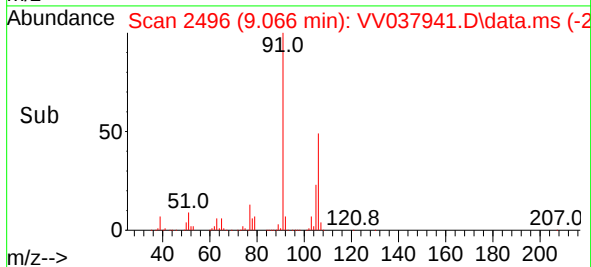
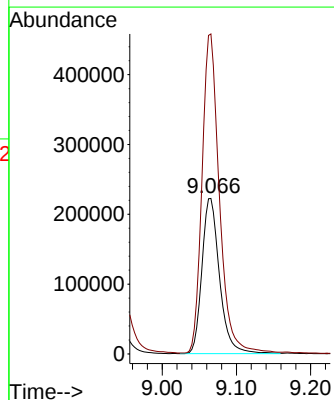
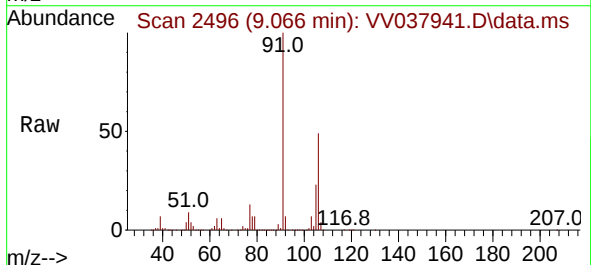
Acq: 06 Nov 2024 20:23

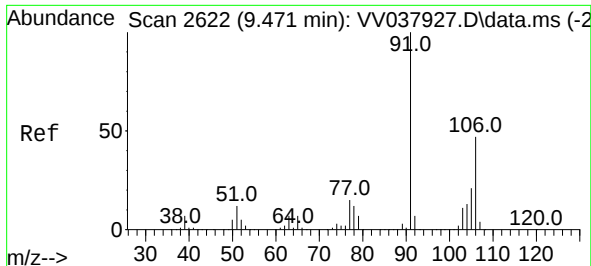
Tgt Ion:106 Resp: 365794

Ion Ratio Lower Upper

106 100

91 205.7 139.0 258.2





#54

o-Xylene

Concen: 4.920 ug/L

RT: 9.474 min Scan# 2

Delta R.T. 0.003 min

Lab File: VV037941.D

Acq: 06 Nov 2024 20:23

Instrument :

MSVOA_V

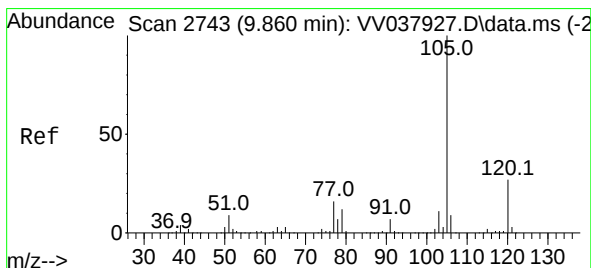
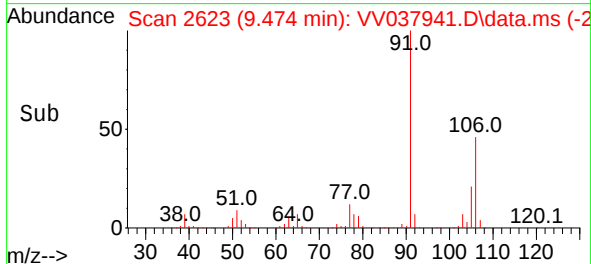
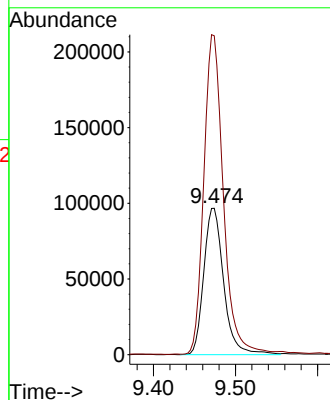
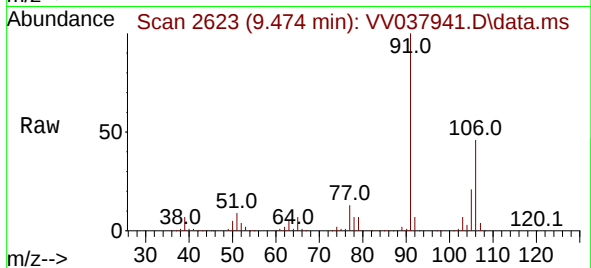
ClientSampleId :

Tgt Ion:106 Resp: 162983

Ion Ratio Lower Upper

106 100

91 217.8 152.0 282.2



#60

Isopropylbenzene

Concen: 0.577 ug/L

RT: 10.384 min Scan# 2906

Delta R.T. 0.524 min

Lab File: VV037941.D

Acq: 06 Nov 2024 20:23

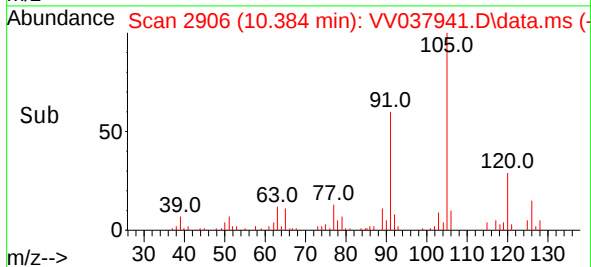
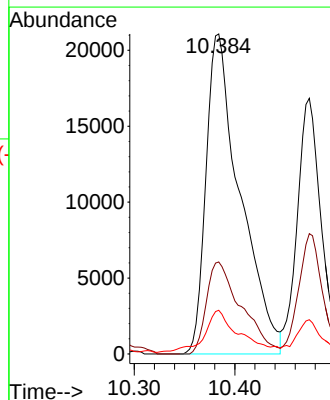
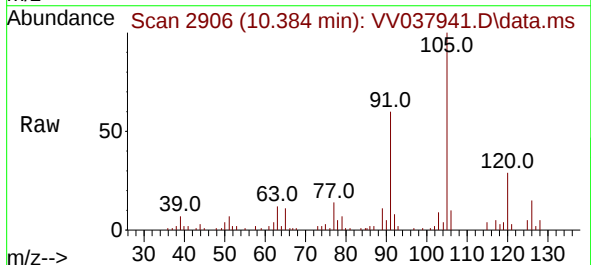
Tgt Ion:105 Resp: 49645

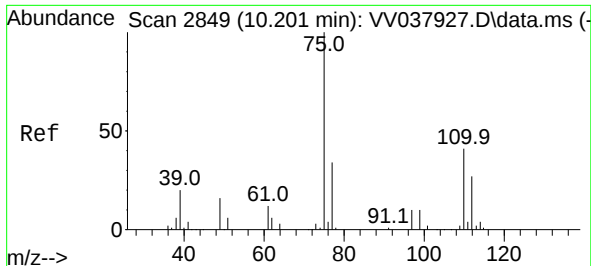
Ion Ratio Lower Upper

105 100

120 29.5 21.0 31.4

77 13.3 12.2 18.2





#61

1,2,3-Trichloropropane

Concen: 0.472 ug/L

RT: 10.352 min Scan# 2896

Delta R.T. 0.151 min

Lab File: VV037941.D

Acq: 06 Nov 2024 20:23

Instrument :

MSVOA_V

ClientSampleId :

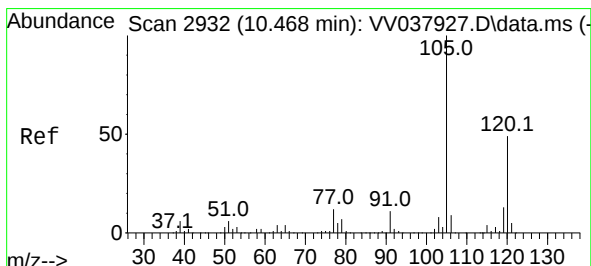
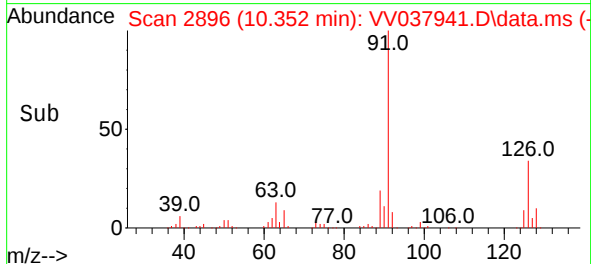
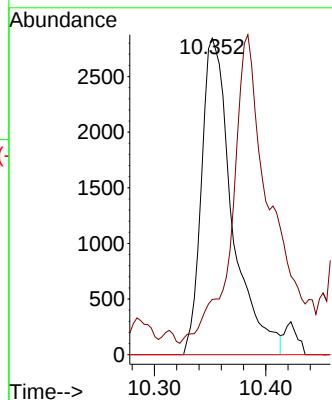
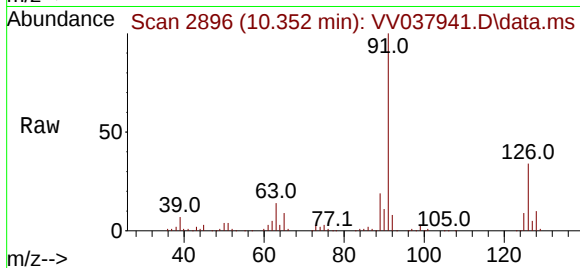
Tgt Ion: 75 Resp: 5450

Ion Ratio Lower Upper

75 100

77 120.7 24.9 37.3#

110 0.0 33.5 50.3#



#62

1,3,5-Trimethylbenzene

Concen: 0.392 ug/L

RT: 10.474 min Scan# 2934

Delta R.T. 0.006 min

Lab File: VV037941.D

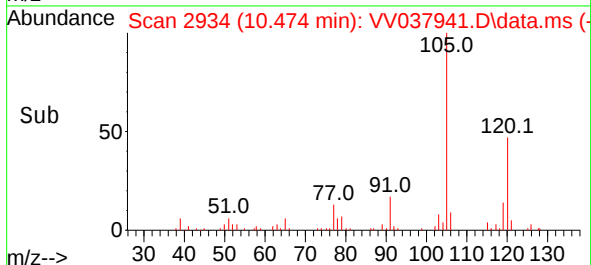
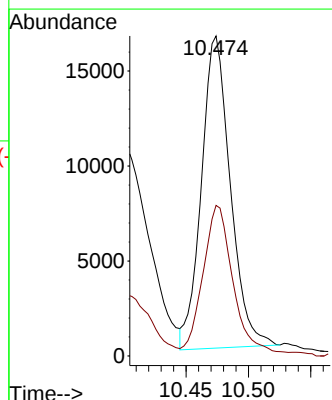
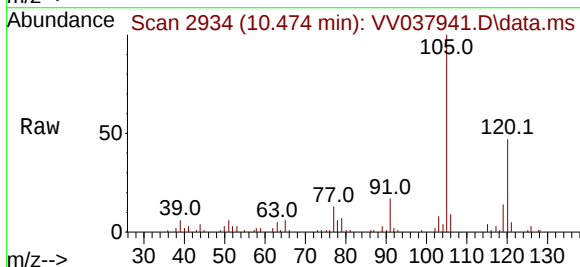
Acq: 06 Nov 2024 20:23

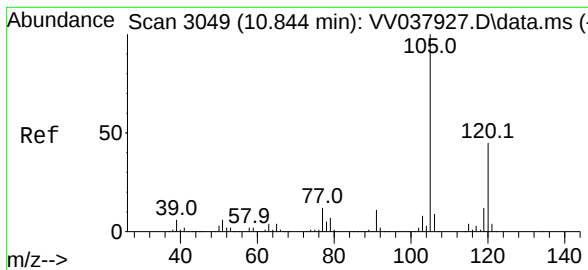
Tgt Ion: 105 Resp: 26501

Ion Ratio Lower Upper

105 100

120 51.9 39.0 58.6





#63

1,2,4-Trimethylbenzene

Concen: 1.276 ug/L

RT: 10.847 min Scan# 3049

Delta R.T. 0.003 min

Lab File: VV037941.D

Acq: 06 Nov 2024 20:23

Instrument :

MSVOA_V

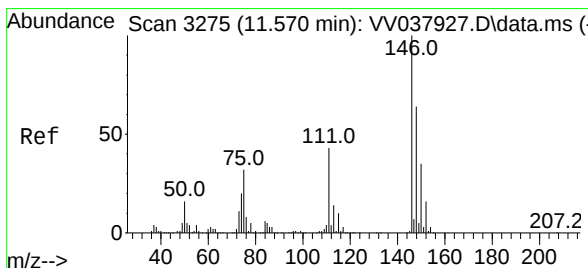
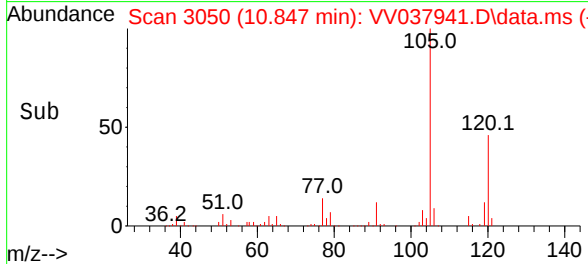
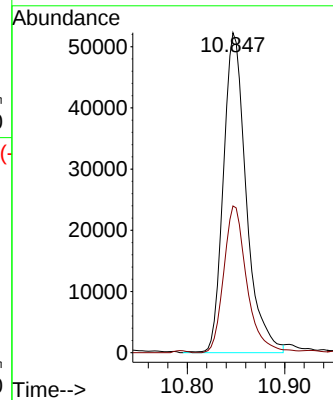
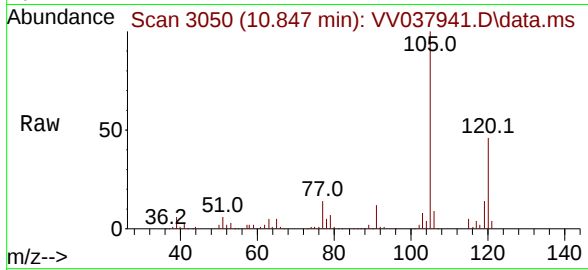
ClientSampleId :

Tgt Ion:105 Resp: 85170

Ion Ratio Lower Upper

105 100

120 46.4 36.2 54.4



#67

1,2-Dichlorobenzene

Concen: 0.670 ug/L

RT: 11.577 min Scan# 3277

Delta R.T. 0.006 min

Lab File: VV037941.D

Acq: 06 Nov 2024 20:23

Tgt Ion:146 Resp: 27003

Ion Ratio Lower Upper

146 100

111 47.3 33.9 50.9

148 63.2 51.4 77.2

